HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

AT-2 CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION
KE-42M1	*RM-Y1003*	*US*

ORIGINAL MANUAL ISSUE DATE: 6/2004

☛ :UPDATED ITEM

REVISION DATE	SUBJECT
6/2004	No revisions or updates are applicable at this time.
7/2004	Corrected PN for PDP Module Assembly (Replaced page 53 with page 53) Added Battery Cover PN (Replaced page 93 with page 93)
1/2005	Added Caution statement (Replaced Page 5 with Page 5)

FLAT PANEL COLOR TELEVISION

SONY®

9-965-967-03

Self Diagnosis Supported model

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KE-42M1

RM-Y1003

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SPECIFICATIONS

Power Requirements 120V AC, 60Hz

Power Consumption (W)
In Use (Max) 370W
In Standby Under 1 W

Inputs/Outputs

VIDEO

Video
1Vp-p, 75ohms unbalanced, sync negative

S Video
(4-pin mini DIN)
Y: 1Vp-p, 75ohms unbalanced, sync negative
C: 0.286Vp-p (Burst signal), 75ohms

Audio
500 mVrms (100% modulation)
Impedance:47 kilo ohms

HD/DVD IN

Y, PB, PR (Component Video)
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
PB, 0.7 Vp-p, 75 ohms;
PR: 0.7 Vp-p, 75 ohms
Signal Format 480i, 480p, 720p, 1080i

Audio
500 mVrms at (100% modulation)
Impedance:47 kilo ohms

HDMI IN

HDMI IN
Video: 1080i, 720p, 480p, 480i
Audio: Twho channel linear PCM32, 44.1, and 48 kHz
16, 20, and 24 bits

Audio
500 mVrms at (100% modulation)
Impedance:47 kilo ohms

AUDIO OUT
500 mVrms at (100% modulation)
More than 1 Vrms at the maximum volume setting (Variable)
More than 500 mVrms (Fixed)

Headphones
Stereo mini jack
Impedance: 16 ohms

	KE-42M1
Speaker Output (W)	10W x 2
Dimensions (W x H x D)	
mm	1,075 x 826 x 312 mm
in	42 3/8 x 32 5/8 x 12 3/8 in
Without Stand	
mm	1,075 x 750 x 110 mm
in	42 3/8 x 29 5/8 x 4 3/8 in
Mass	
kg	45 kg
lbs	99 lbs 3 oz
Without Stand	
kg	39.5 kg
lbs	87 lbs 1 oz

Television system
American TV standard, NTSC

Channel coverage
VHF: 2-13/ UHF: 14-69/ CATV: 1-125

Panel System
Plasma Display panel

Visible screen size
42-inch picture measured diagonally

Antenna
75 ohm external terminal for VHF/UHF

Display resolution
852 dots (horizontal) x 480 lines (vertical)

Supplied Accessories
Remote Commander RM-Y1003
Two Size AA (R6) Batteries
75 ohms coaxial cable
AC power cord
Clamp screws (2)
Plug Holder for AC Power Cord
Cleaning cloth
Operating Instructions
Quick Setup Guide
Warranty Card

Optional Accessories
(Note: Some optional accessories may be out of stock.)
Headphones plug adapter
Connecting cables - VMC-810S/820S, YC-15v/30v,RK-74A. VMC-10HG, SMF-403
Wall-Mount Bracket SU-PW2

Design and specifications are subject to change without notice.

WARNINGS AND CAUTIONS

CAUTION

☛These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

☛Ces instructions de service sont à l'usage du personnel de service qualifié seulement. Pour prévenir le risque de choc électrique, ne pas faire l'entretien autre que celui contenu dans le Mode d'emploi à moins que vous soyez qualifié faire ainsi.

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manµFacturers’ instructions to use these instructions.

2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

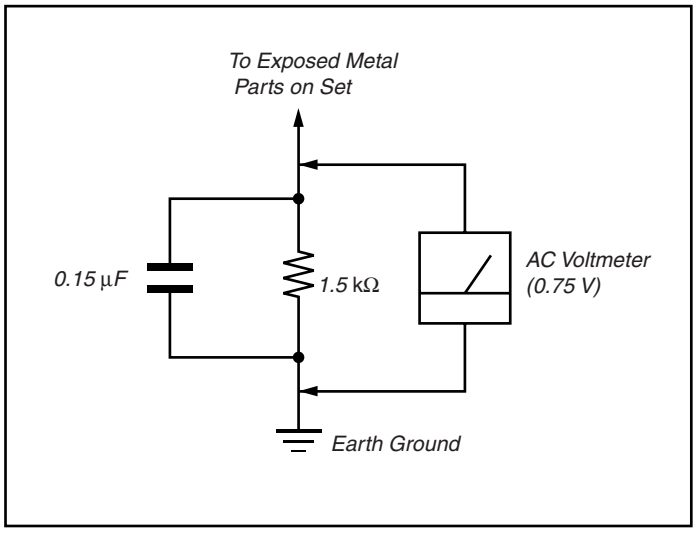


Figure A. Using an AC voltmeter to check AC leakage.

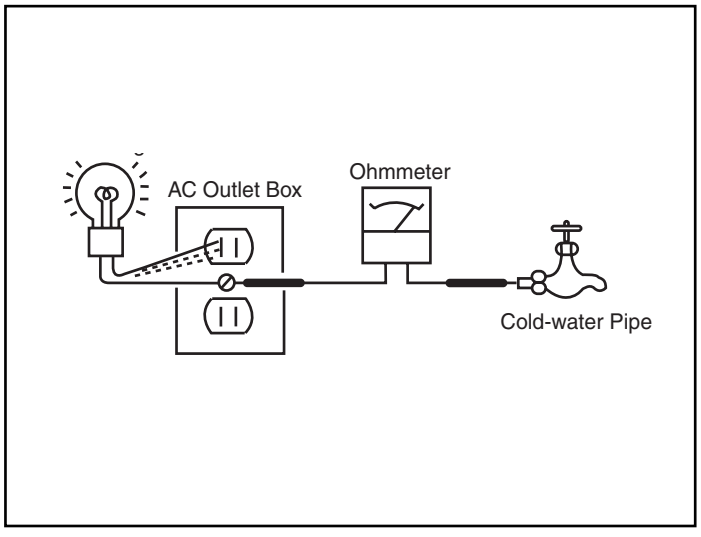


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION

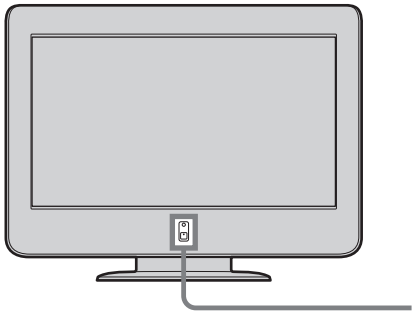
Self Diagnosis Supported model

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Explanation of Controls



Front Panel Control Button

(1)fi INPUT

(2)fi Volumefi-

(3)fi Volumefi+

(4)fi Channelfi-

(5)fi Channelfi+

LED Indicator

(1)fi TimerfiLED

(2)fi PicturefiOffiLED

(3)fi PowerfiLED

Control Button

(1)fi Powerfi(|)

LED Display

This model displays Power Supply Lamp in Green and Standby/Off-Timer Lamp in Red. Use the following tables to determine the status of the monitor.

LED Display

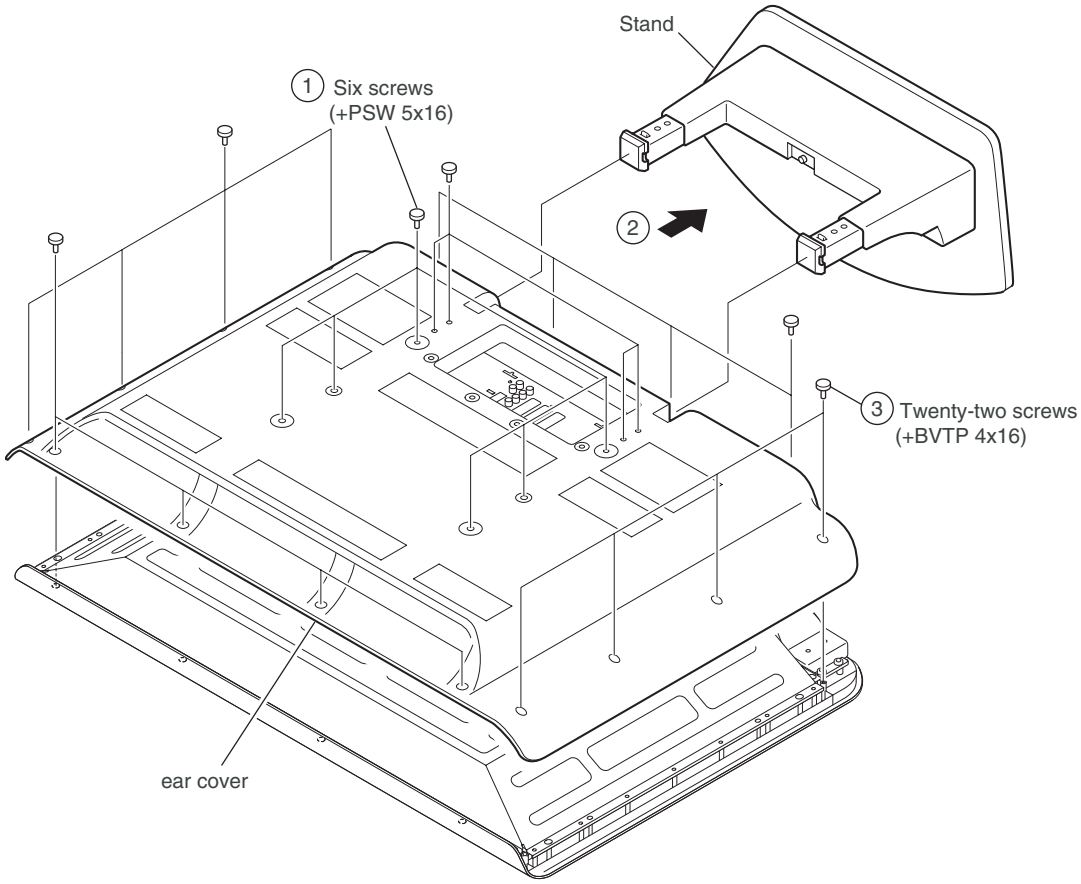
Status	Power LED	Timer LED	Picture off LED	Remarks
Power On	Green On	Off	Off	Microprocessor is in normal working mode.
Standby	Red On	Off	Off	Microprocessor is in sleeping mode.
Aging	Green Blink	Off	Off	
Off Timer Reserved	Green On	Red On	Off	
Failure	Red Blink	Off	Off	Causes of the failures are classified by red blink method. (See Failure LED Display table)
Power Off (Main Power Supply)	Off	Off	Off	
Picture Off	Off	Off	Blue On	

Failure LED Display

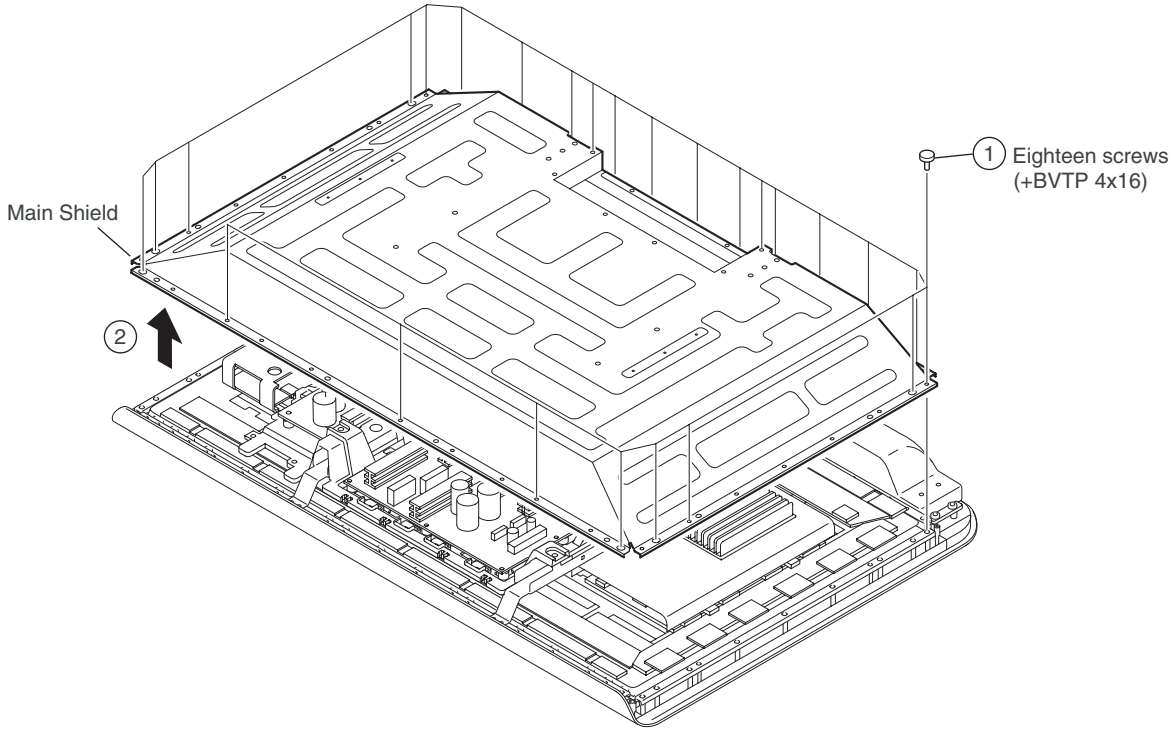
Watch Items	Classification of Failure Categories	LED Display
Pixel Works malfunction	Scalar failure	RED (2.0 sec.) → Off (2.0 sec.)
Main Unit malfunction **Panel temperature malfunction** **FAN malfunction**	Main Unit temperature failure	RED (1.0 sec.) → Off (1.0 sec.)
5V Voltage malfunction	Power Supply failure	RED (1.5 sec.) → Off (0.5 sec.)
3.3V Voltage malfunction		
Main Voltage malfunction		

SECTION 1: DISASSEMBLY

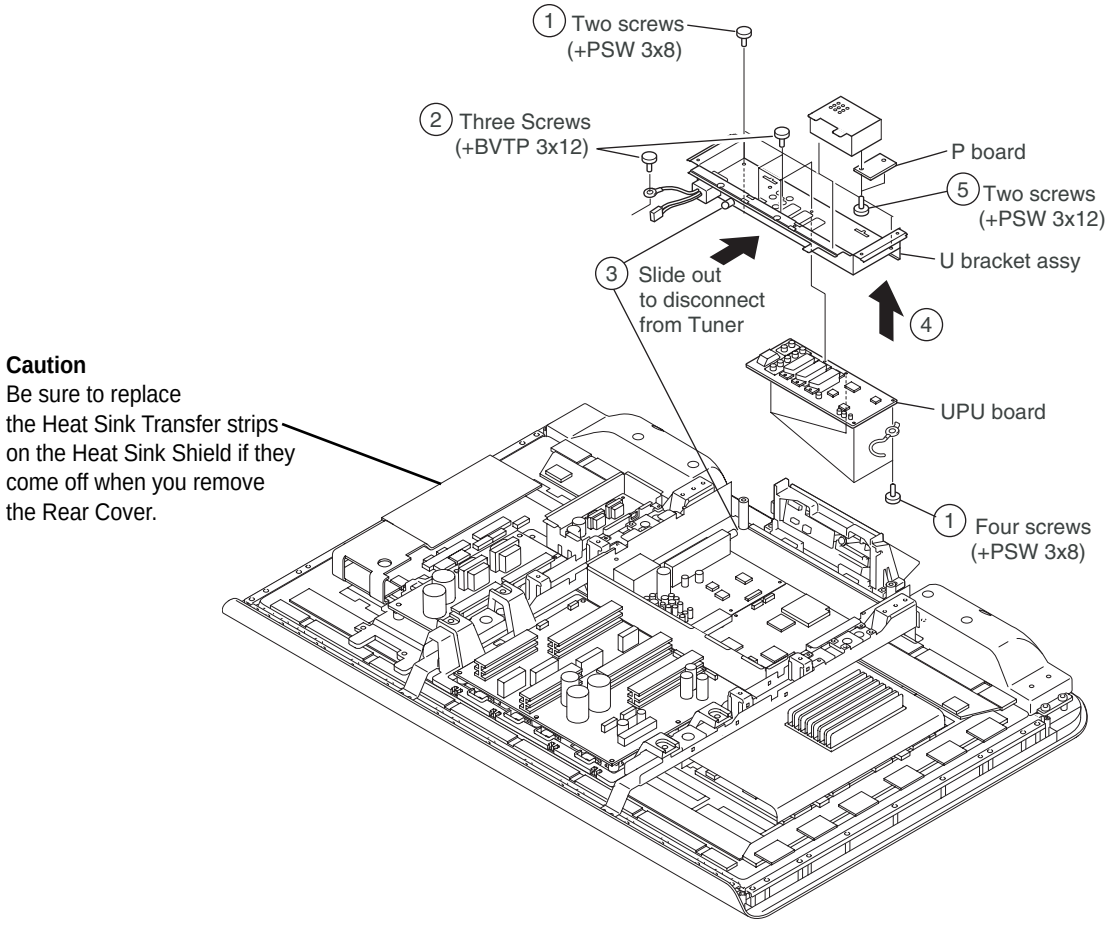
1-1. STAND AND REAR COVER REMOVAL



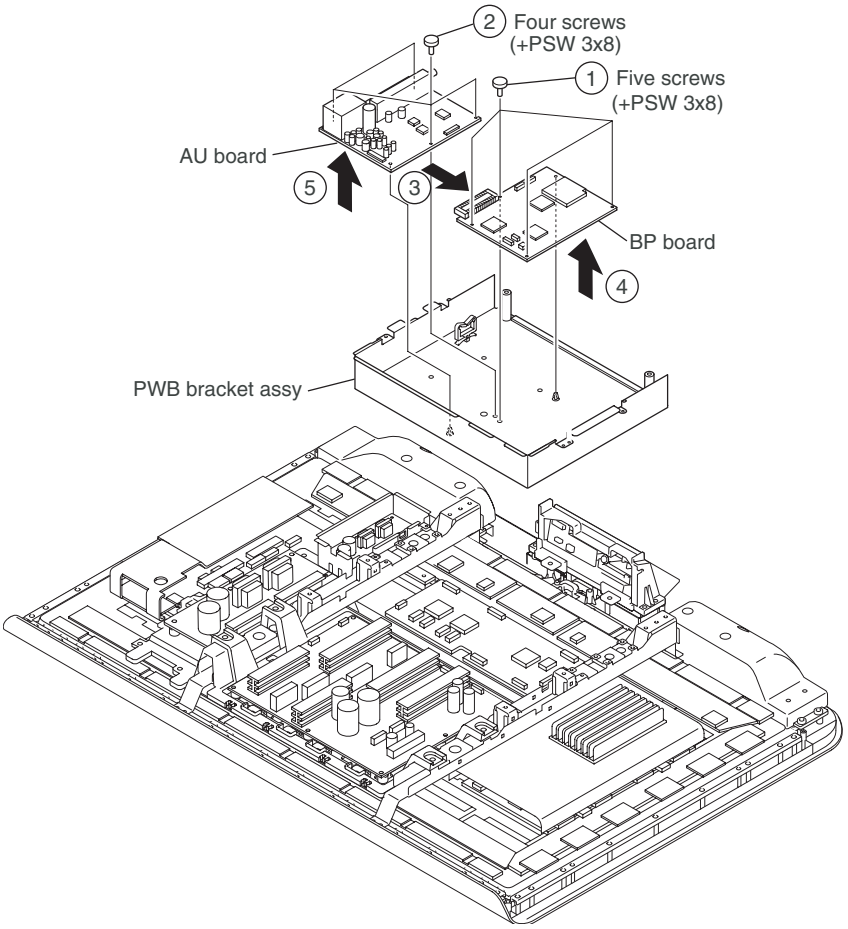
1-2. MAIN SHIELD REMOVAL



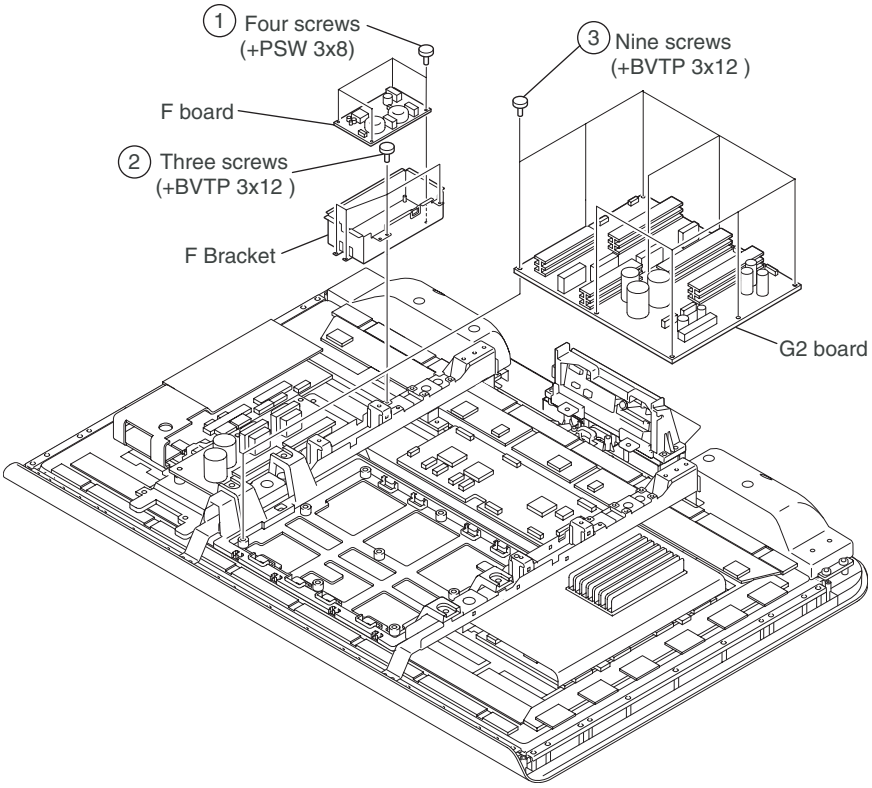
1-3. P BOARD AND UPU BOARD REMOVAL



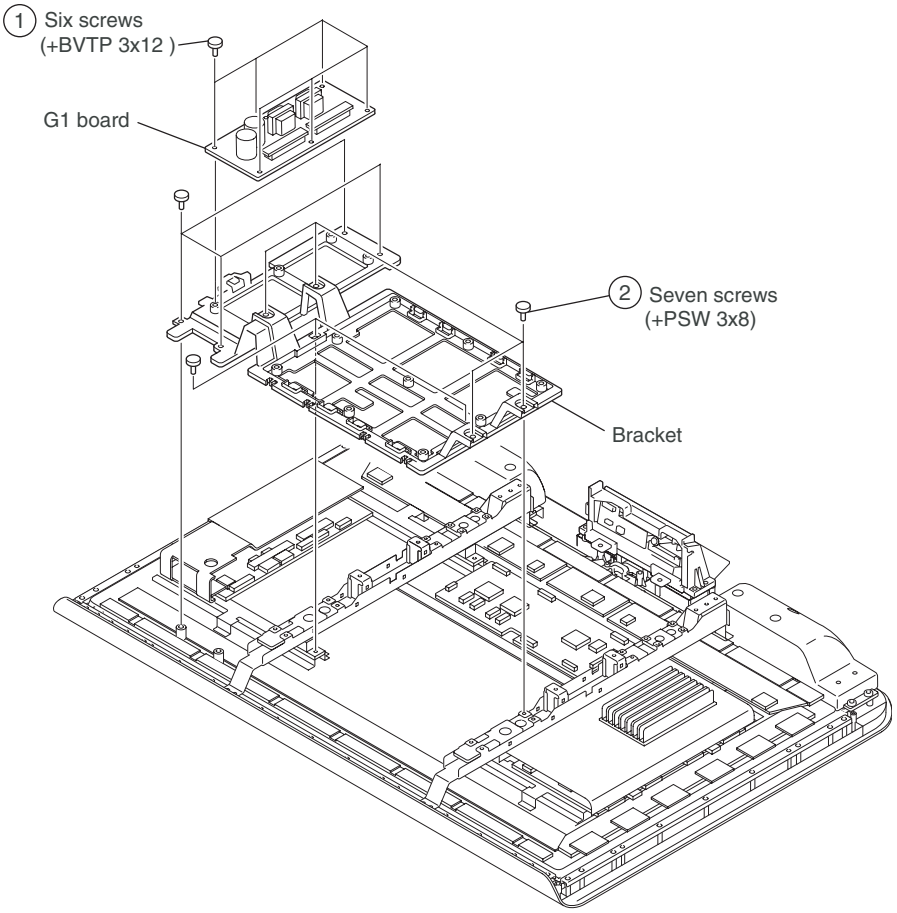
1-4. AU BOARD AND BP BOARD REMOVAL



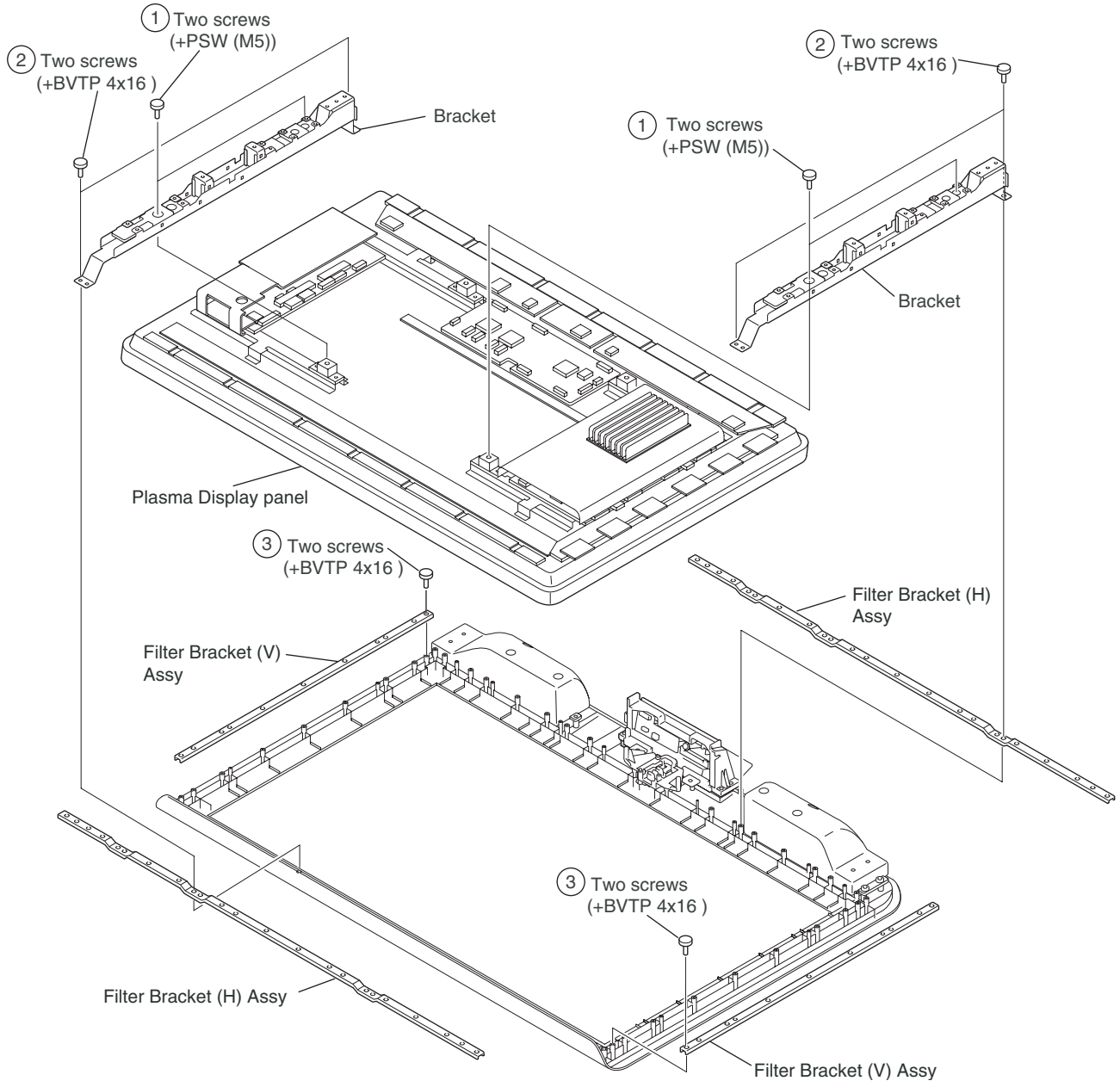
1-5. F BOARD AND G2 BOARD REMOVAL



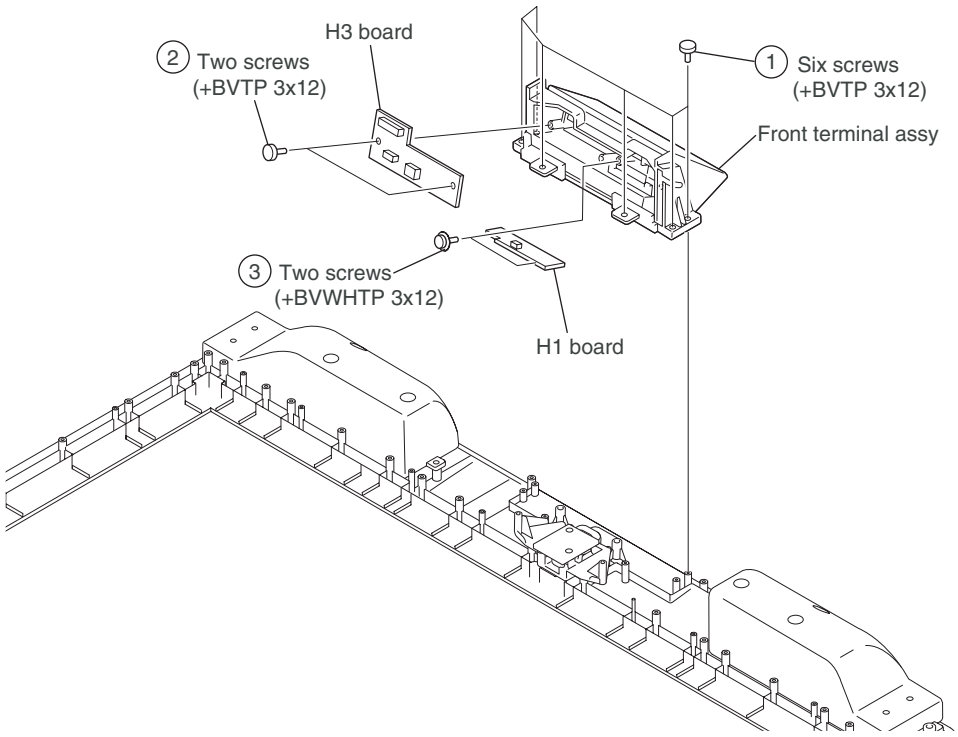
1-6. G1 BOARD REMOVAL



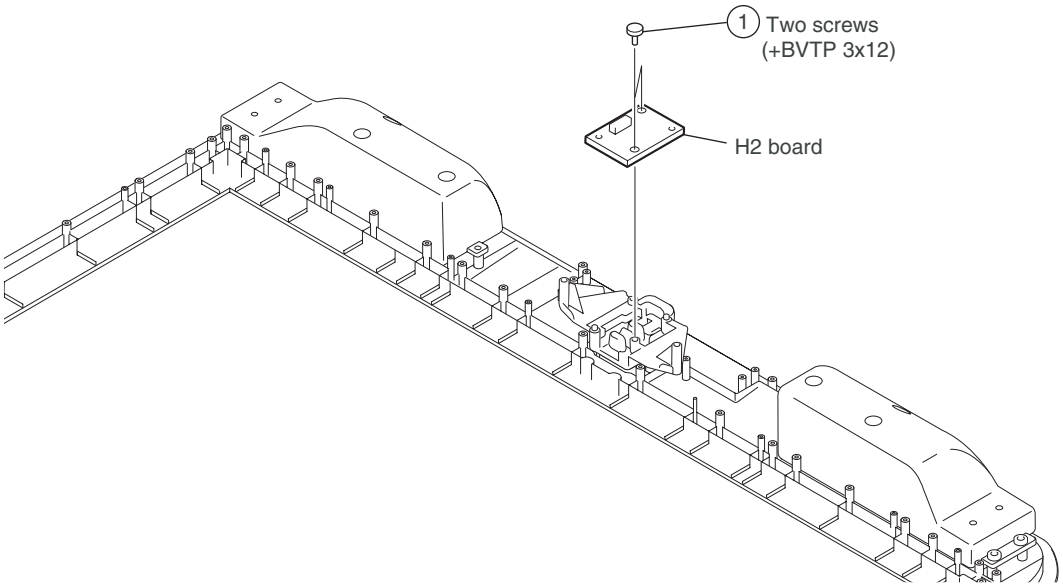
1-7. LCD PANEL REMOVAL


1 Two screws (+PSW (M5))
2 Two screws (+BVTP 4x16)
Bracket
2 Two screws (+BVTP 4x16)
1 Two screws (+PSW (M5))
Bracket
Plasma Display panel
3 Two screws (+BVTP 4x16)
Filter Bracket (H) Assy
Filter Bracket (V) Assy
3 Two screws (+BVTP 4x16)
Filter Bracket (H) Assy
Filter Bracket (V) Assy

1-8. H1 BOARD AND H3 BOARD REMOVAL



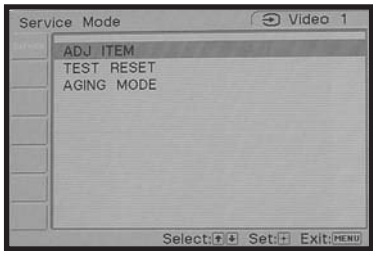
1-9. H2 BOARD REMOVAL



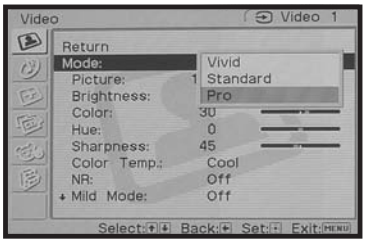
SECTION 2: ADJUSTMENTS

2-1. WHITE BALANCE ADJUSTMENTS

1. Input a grayscale pattern.
2. Enter into Service Mode.
3. Select **ADJ ITEM** from the Service Mode menu.

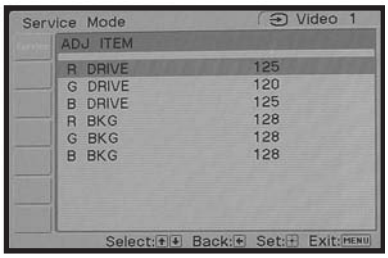


4. Press the MENU button on the remote to display the Customer Menu.
5. From the Mode list select **Pro**.



6. Press the MENU button on the remote to clear the customer menu.
7. From the **ADJ ITEM** list do the following:
   a. Adjust **R DRIVE**, **G DRIVE**, and **B DRIVE** for correct white balance in high lighted areas.
   b. Adjust **R BKG**, **G BKG**, and **B BKG** for correct white balance in low lighted areas.

   Note: Adjusments automatically save.

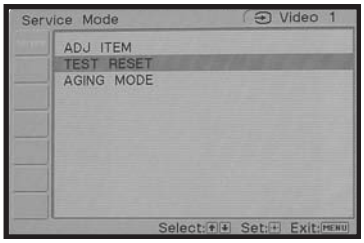


8. Repeat steps 4 through 7 for **Standard** and **Vivid** mode.
9. When changes are complete, turn the set off then back on.

2-2. RESETTING DATA

The **TEST RESET** resets all the customers adjustable data on the set to the factory defaults.

1. Enter into Service Mode.
2. Select **TEST RESET** from the Service Mode menu.



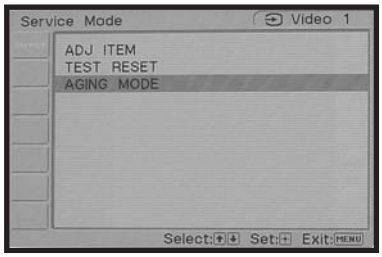
3. Press the POWER button on the remote to reset the customer data. Set will turn off then on again and return to Service Mode.

2-3. AGING MODE

Aging mode is designed to remove image retention from the screen.

Note: Once you enter into Aging mode the remote commander no longer functions with the set. To turn off the set push the Power Button on the set.

1. Enter into Service Mode.
2. Select **AGING MODE** from the Service Mode menu.



3. When Aging is complete, turn the set off.

2-4. PANEL VOLTAGE ADJUSTMENT

Note: Panel Voltage Adjustment must be performed whenever the panel or the G2 Board is replaced.

1. Connect All White Video Signal to Video Input.
2. Adjust the following variable resistors:

   Adjust the voltage of each part to the value specified in the right column.

Volume	Part	Test Pin
RV6825	CN6109(5pin) VA	TP6102
RV6854	CN6112(1pin) VSCAN	TP6103
RV6504	CN6112(6pin) VS	TP6108
RV6847	CN6112(8pin) VSET	TP6105
RV6835	CN6111(10pin) VE	TP6107

VIDEO NTSC3.58MHz 100% All White Signal
Voltage Specification

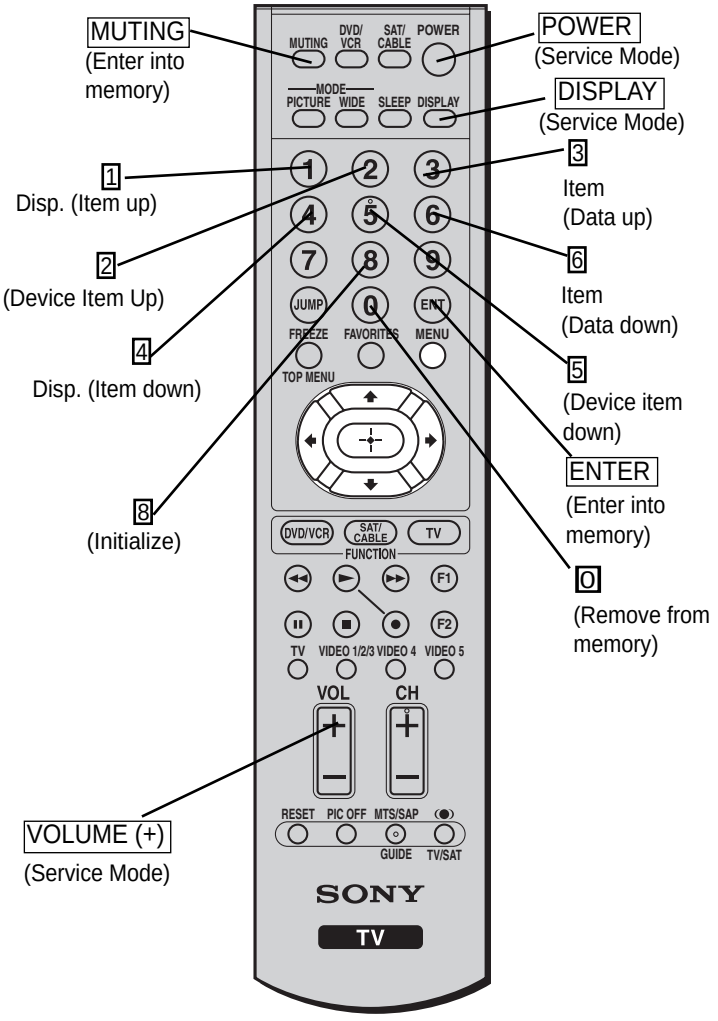
Part	Specification
VA	Refer to the rear panel seal ±0.3V
VSCAN	Refer to the rear panel seal ±0.3V
VS	Refer to the rear panel seal ±0.3V
VSET	Refer to the rear panel seal ±0.3V
VE	Refer to the rear panel seal ±0.3V

Use an adjacent test pin for GND.

Video Signal Source
Reference Value

Part	Ref. Voltage
VA	70V
VSCAN	-70V
VS	175V
VSET	173V
VE	165V

2-5. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y1003

FUNCTION OF KEYS ON COMMANDER

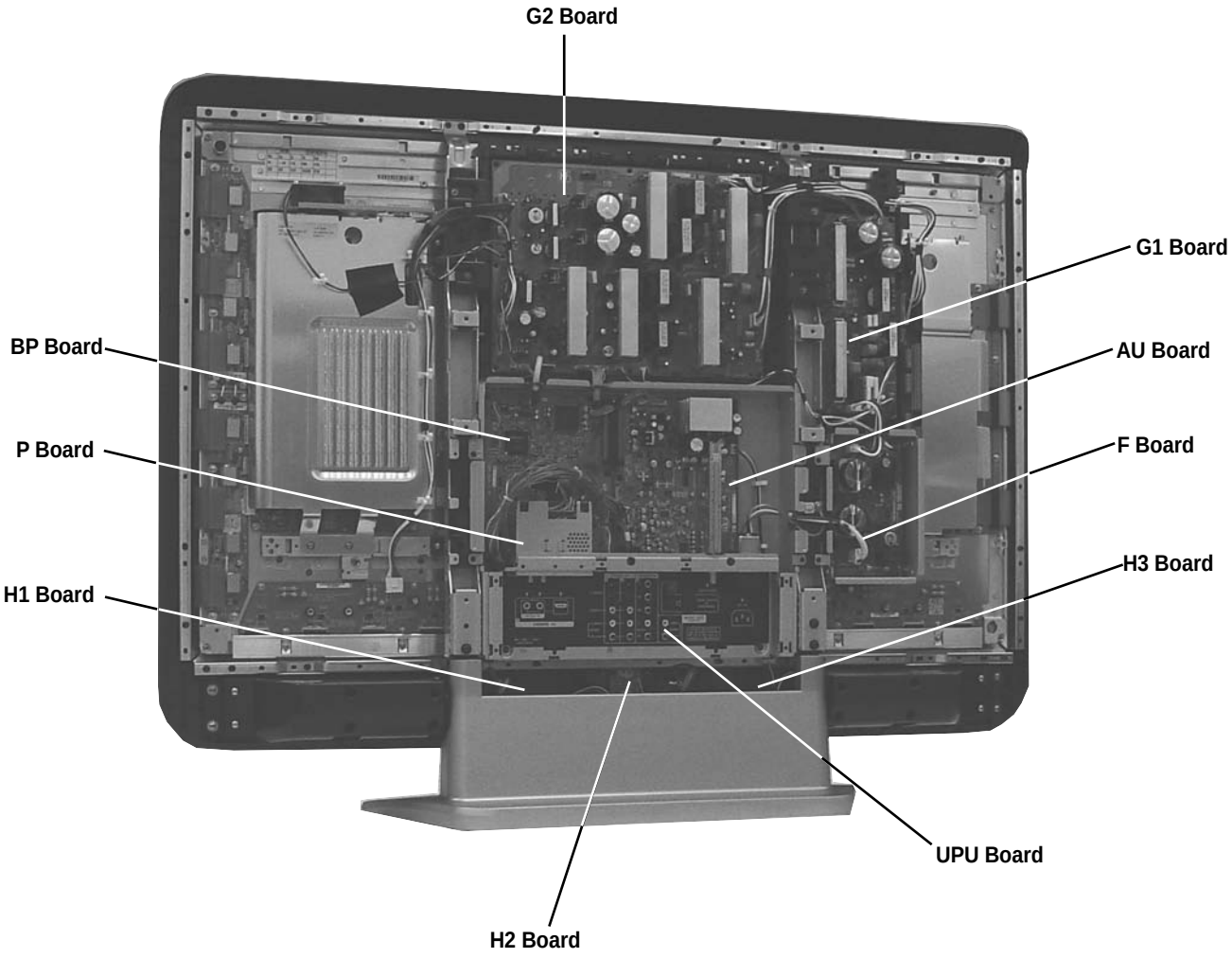
- •(1) : Changes adjustment item. (item No. moves up)
- •(4) : Changes adjustment item. (item No. moves down)
- •(2) : Changes adjustment category. (category moves up)
- •(5) : Changes adjustment category. (category moves down)
- •(3) : Changes data value. (up)
- •(6) : Changes data value. (down)

Commander Function

Button	Mode	Description
MUTING + ENTER	WRITE	Writes data to NVM.
⓪ + ENTER	READ	Reads data from NVM.
⑧ + ENTER	RESET	Set the shipping condition. (Be sure not to use usually)

SECTION 3: DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: **Pitch : 5mm**
Rating electrical power : $^1/_4$W

$^1/_4$W in resistance, $^1/_{10}$W and $^1/_{16}$W in chip resistance.

: nonflammable resistor

: fusible resistor

: internal component

: panel designation and adjustment for repair

: earth ground

: earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+line.

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

REFERENCE INFORMATION

RESISTOR

: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
: ※	ADJUSTMENT RESISTOR

CAPACITOR

: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

COIL

: LF-8L MICRO INDUCTOR

The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

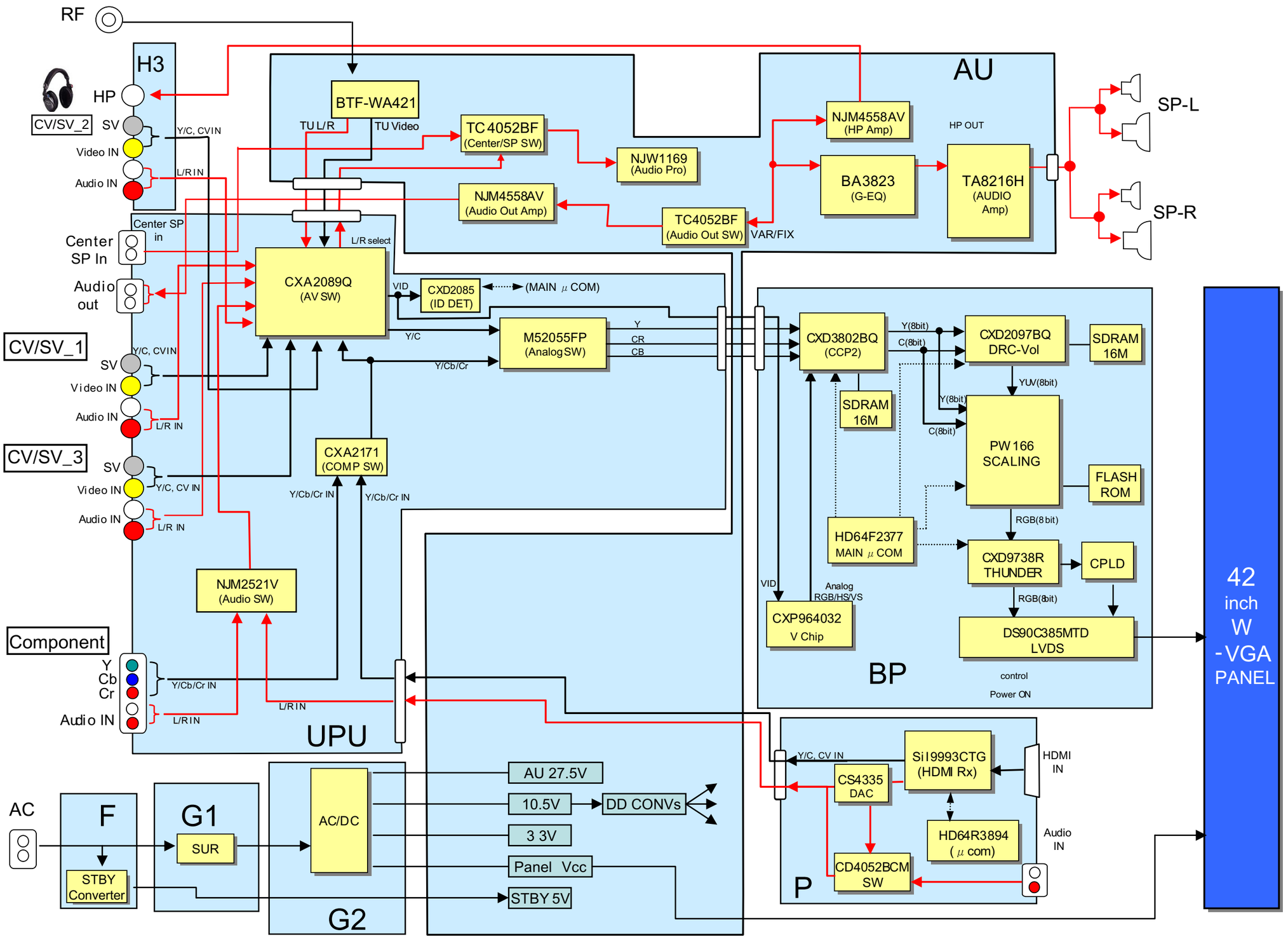
Terminal name of semiconductors in silk screen printed circuit (✻)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector / Base Emitter	
②	Transistor		Collector / Base Emitter	
③	Diode		Cathode / Anode	
④	Diode		Cathode / Anode (NC)	
⑤	Diode		Cathode / Anode (NC)	
⑥	Diode		Common / Anode Cathode	
⑦	Diode		Common / Anode Cathode	
⑧	Diode		Common / Anode Anode	
⑨	Diode		Common / Anode Anode	
⑩	Diode		Common / Cathode Cathode	
⑪	Diode		Common / Cathode Cathode	
⑫	Diode		Anode Cathode / Anode Anode / Cathode Anode	
⑬	Transistor (FET)		Drain Source / Gate	
⑭	Transistor (FET)		Drain Source / Gate	
⑮	Transistor (FET)		□ Source / □ Drain / □ Gate	
⑯	Transistor		□ Emitter / □ Collector / □ Base	
⑰	Transistor		C2 B1 E1 / E2 B2 C1	
⑱	Transistor		C1 B2 E2 / E1 B1 C2	
⑲	Transistor		C1 B2 E2 / E1 B1 C2	
⑳	Transistor		C1 B2 E2 / E1 B1 C2	
㉑	Transistor		E2 B1 E1 / C2 C1(B2)	
㉒	Transistor		(B2) B1 E1 E2 / C1 C2	
㉓	Transistor		(B2) E2 E1 B1 / C2 C1	
⎯	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

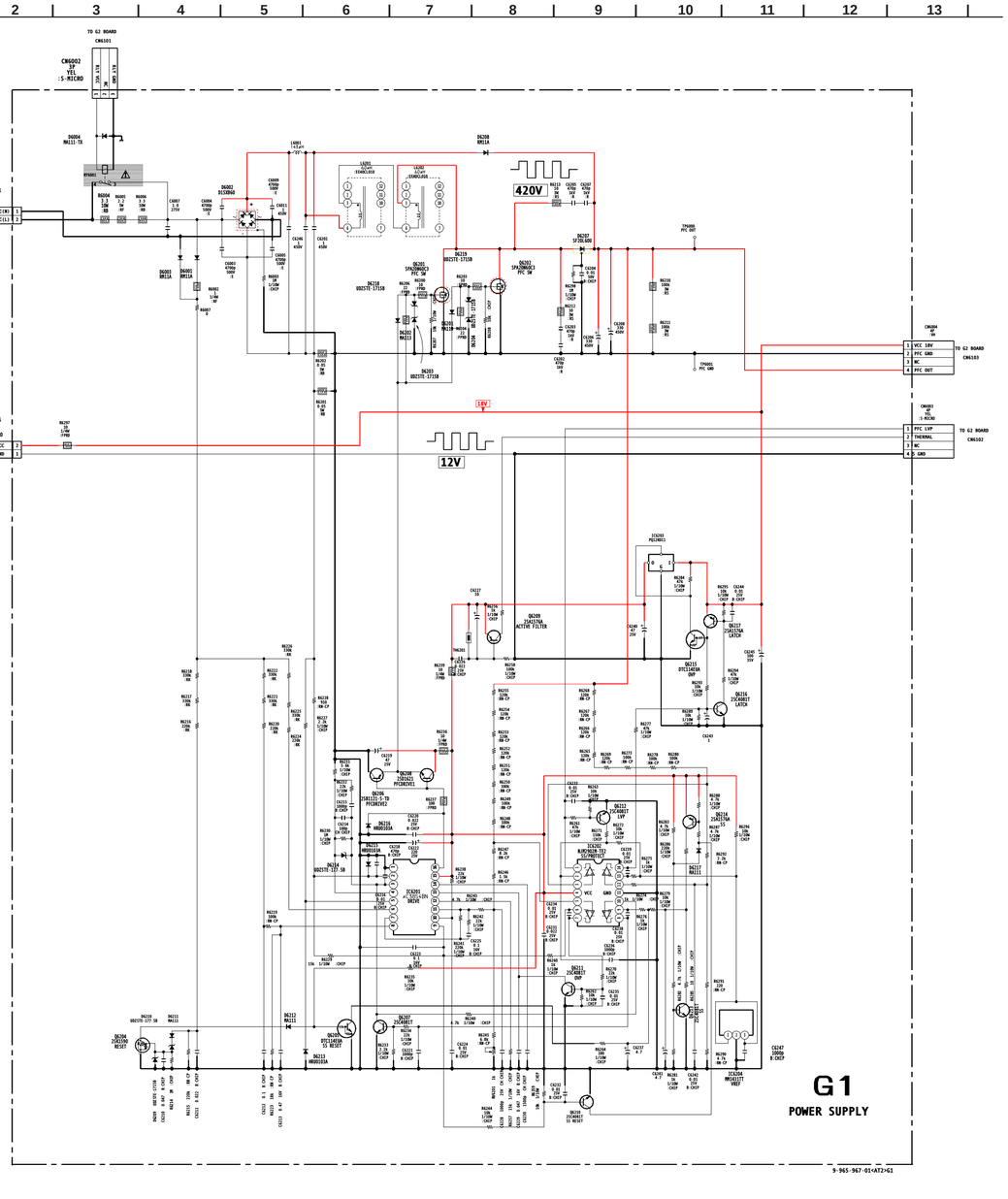
Ver.1.6

3-3.BLOCK DIAGRAMS



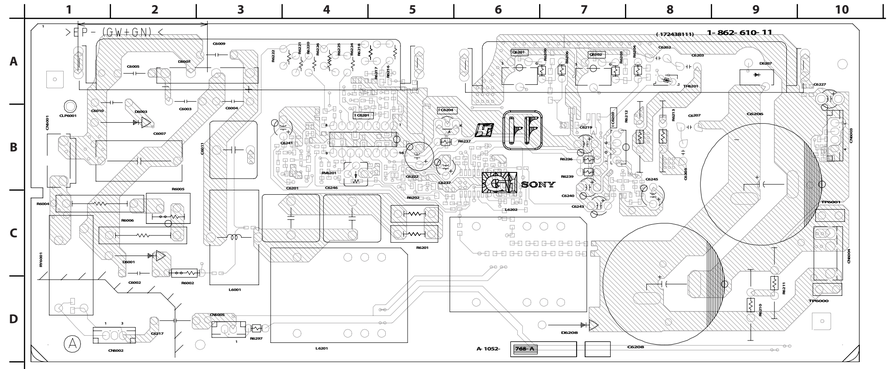
3-4. SCHEMATICS AND SUPPORTING INFORMATION

G1 BOARD SCHEMATIC DIAGRAM



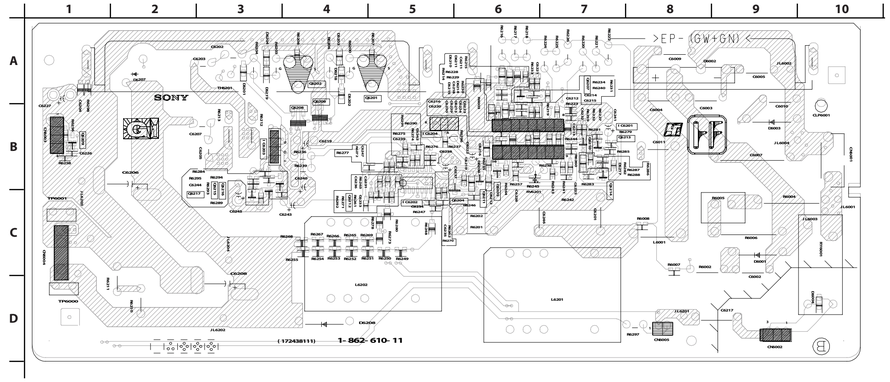
G1 [POWER SUPPLY]

COMPONENT SIDE

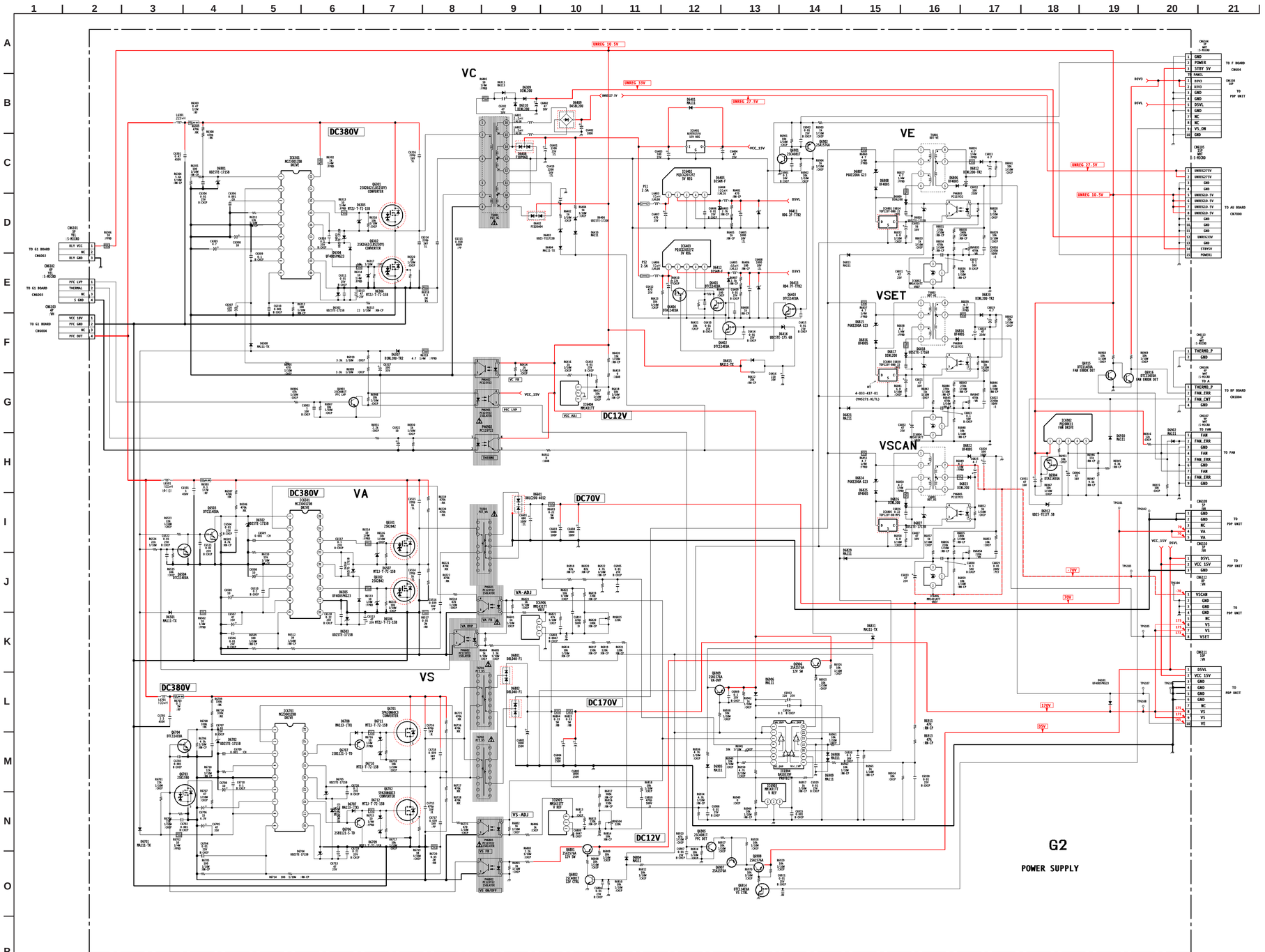


G1 [POWER SUPPLY]

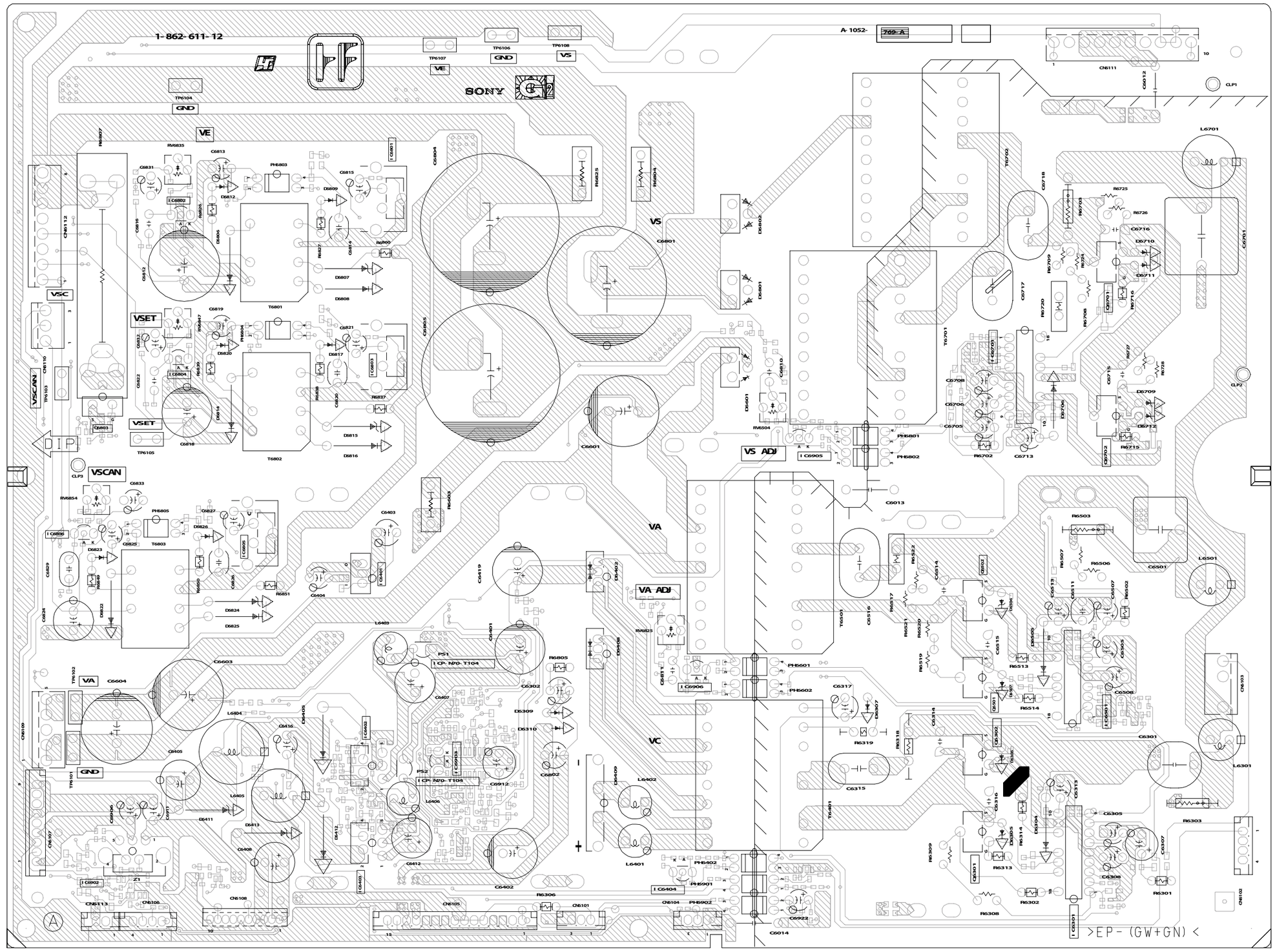
CONDUCTOR SIDE



G2 BOARD SCHEMATIC DIAGRAM

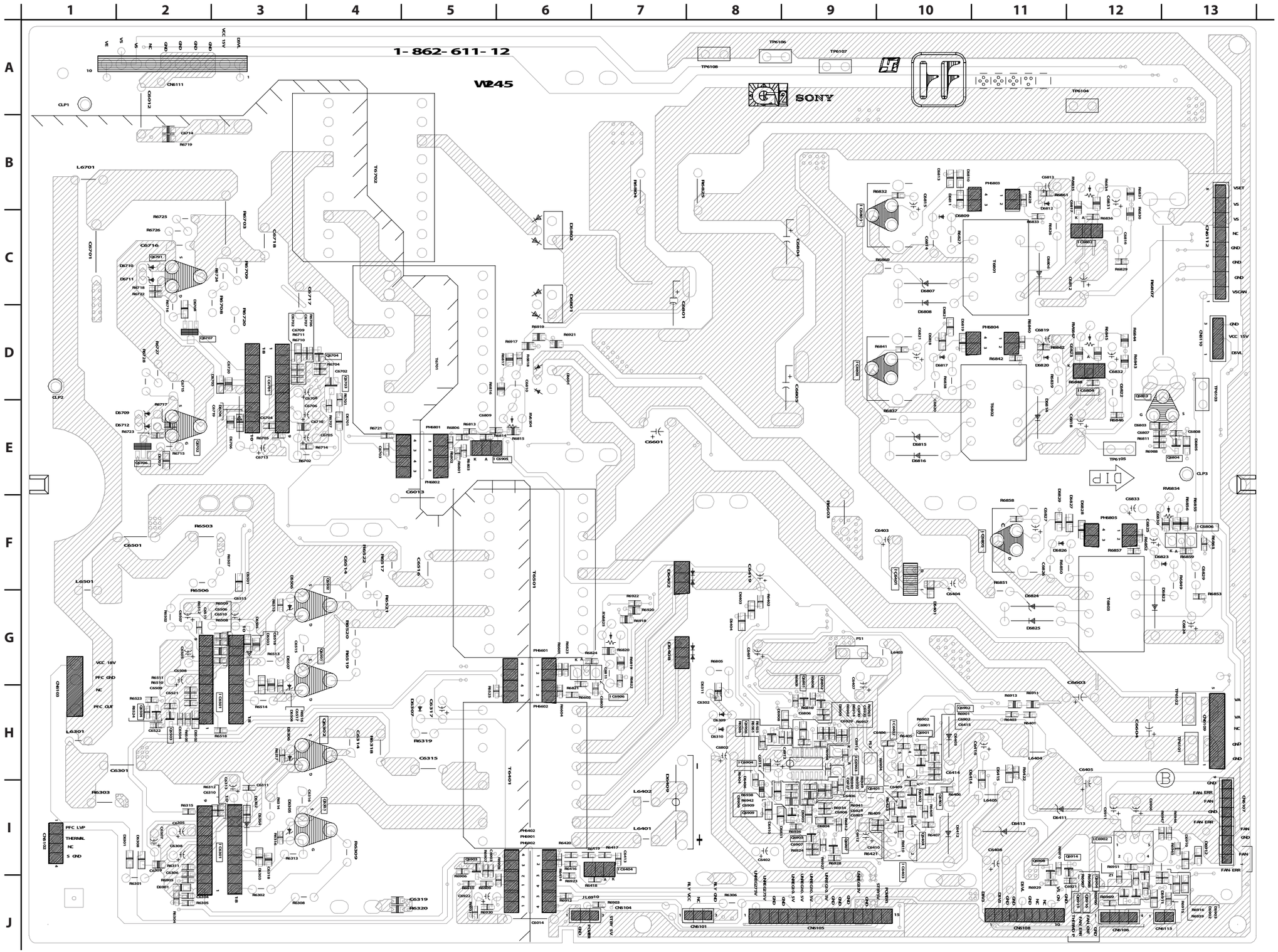


G2 [POWER SUPPLY]
COMPONENT SIDE

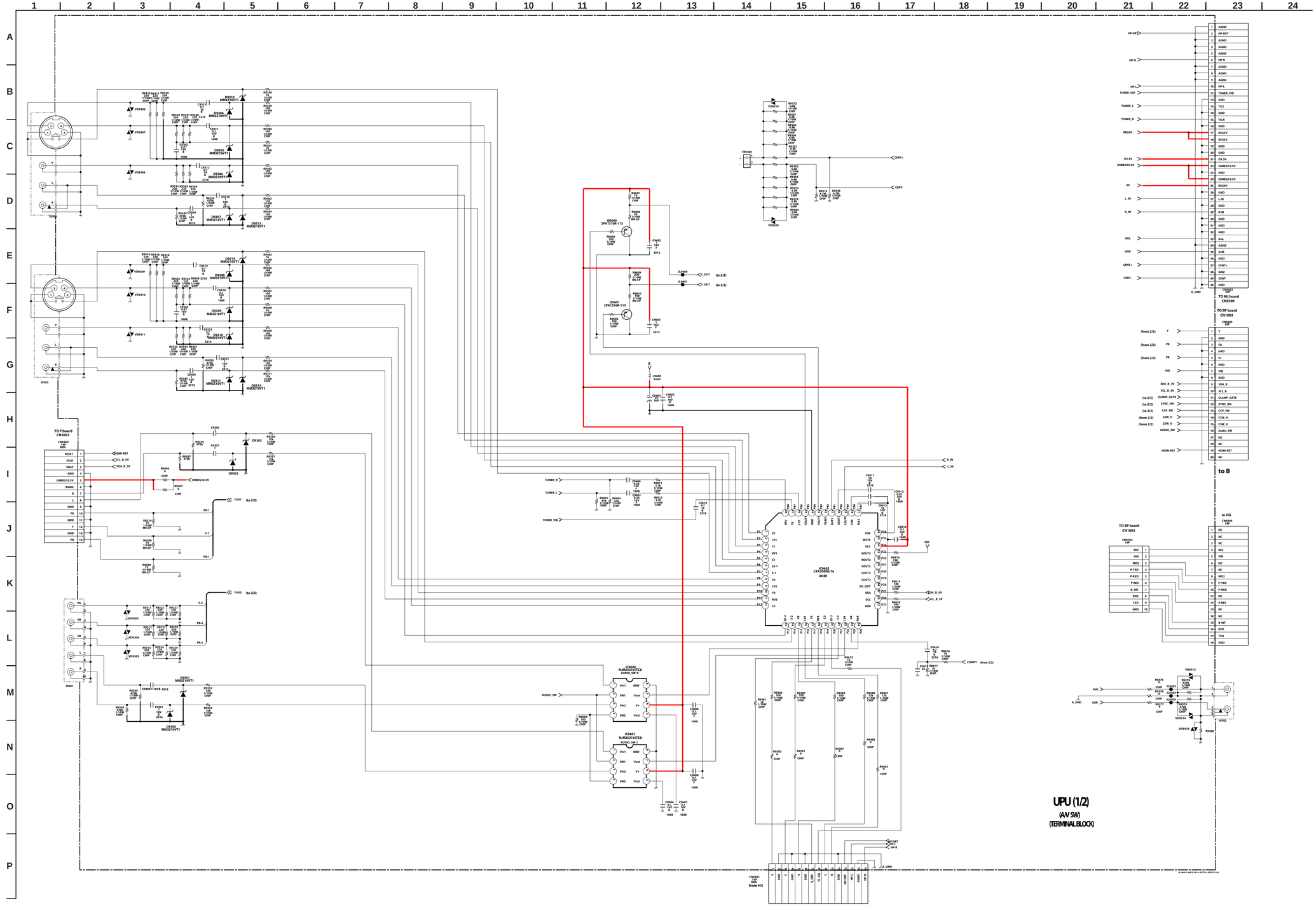


G2 [POWER SUPPLY]

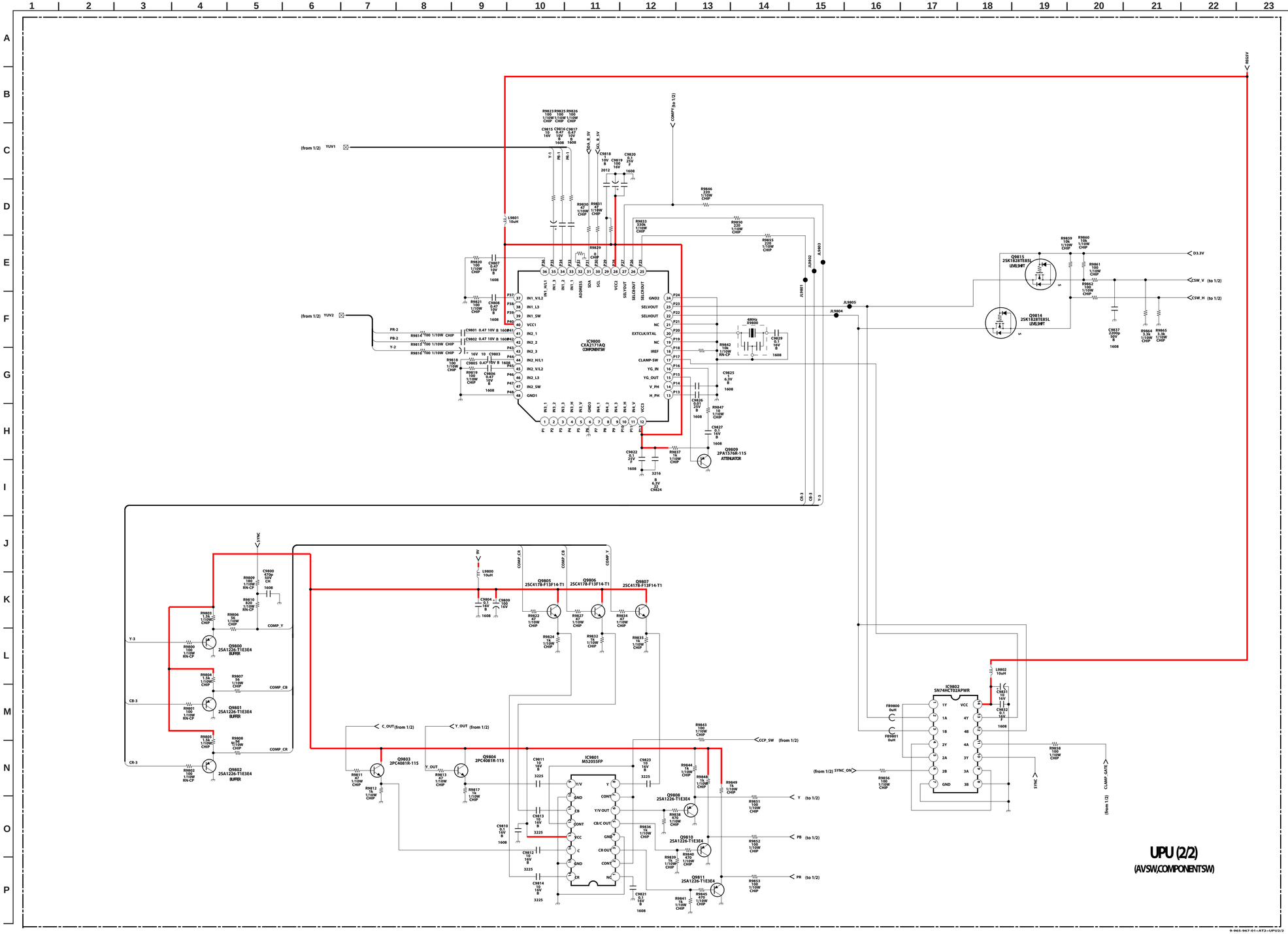
CONDUCTOR SIDE



UPU BOARD SCHEMATIC DIAGRAM (1 OF 2)



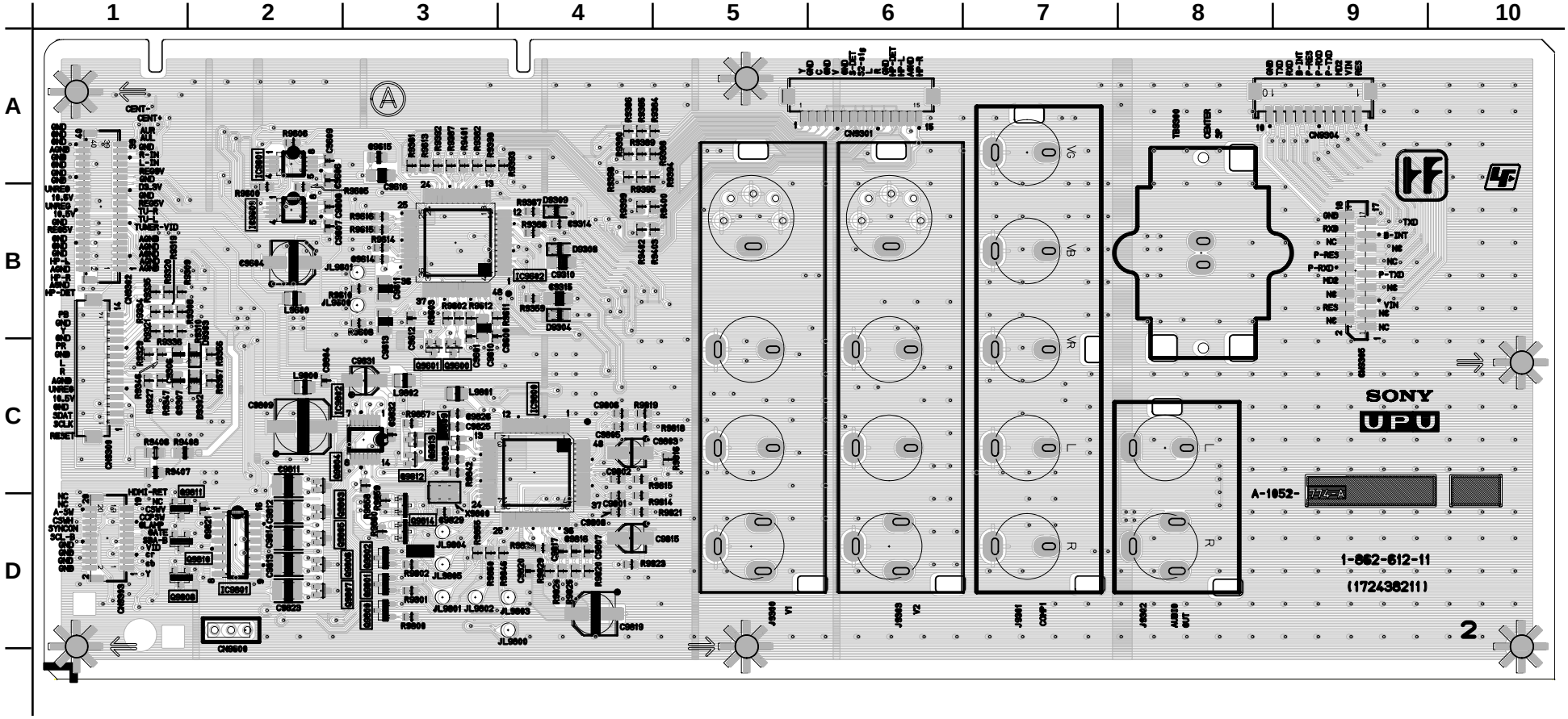
UPU BOARD SCHEMATIC DIAGRAM (2 OF 2)



UPU

[AV SW, TERMINAL BLOCK, COMPONENT SW]

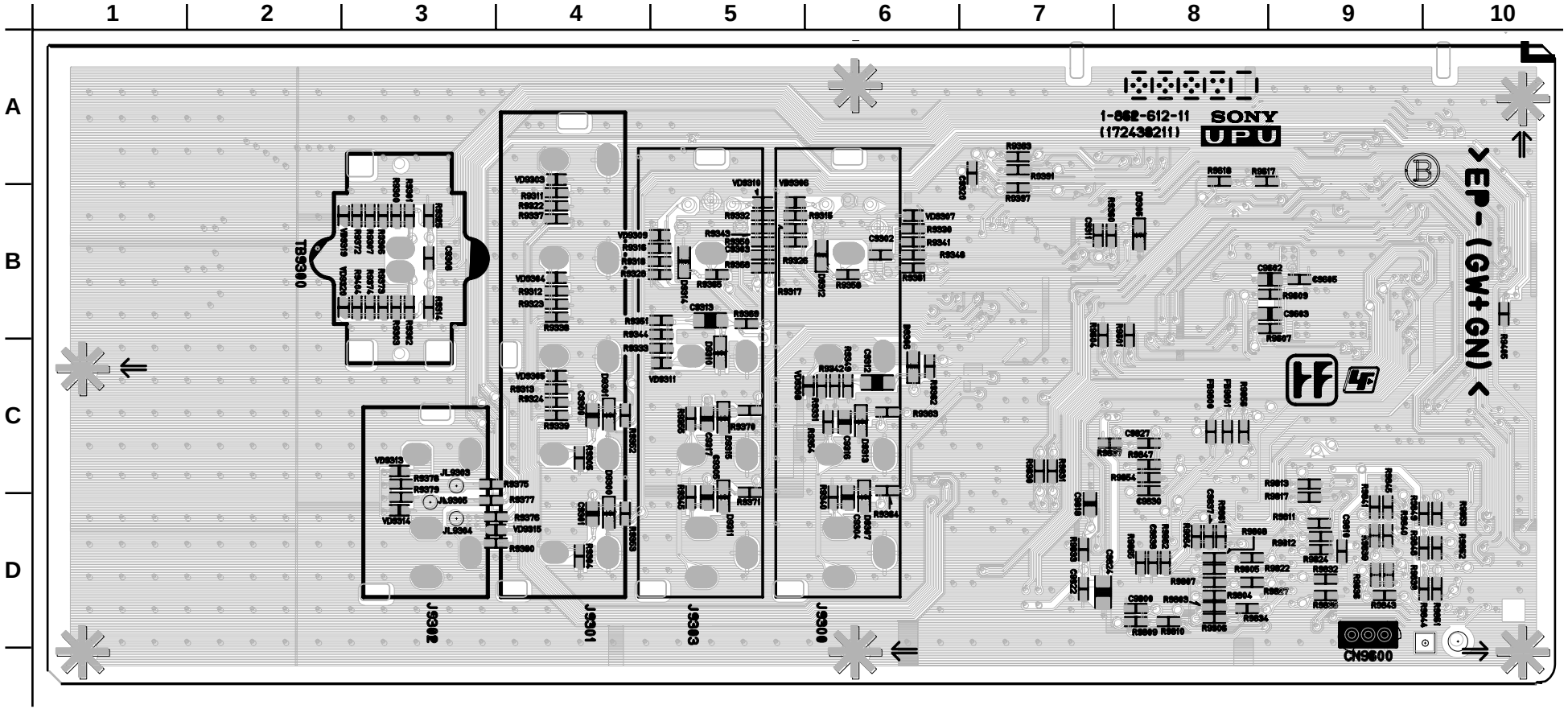
COMPONENT SIDE



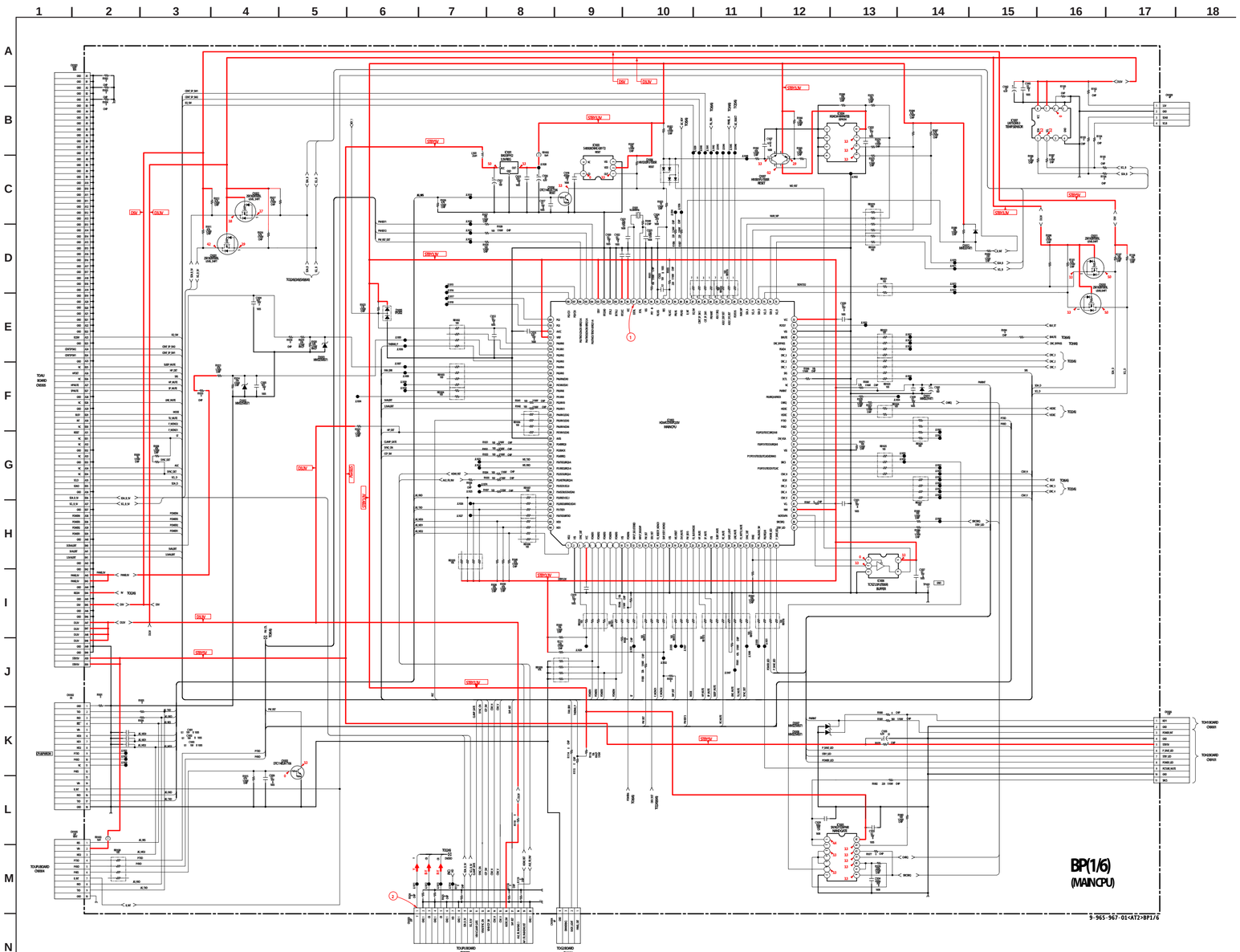
UPU

[AV SW, TERMINAL BLOCK, COMPONENT SW]

CONDUCTOR SIDE



BP BOARD SCHEMATIC DIAGRAM (1 OF 6)

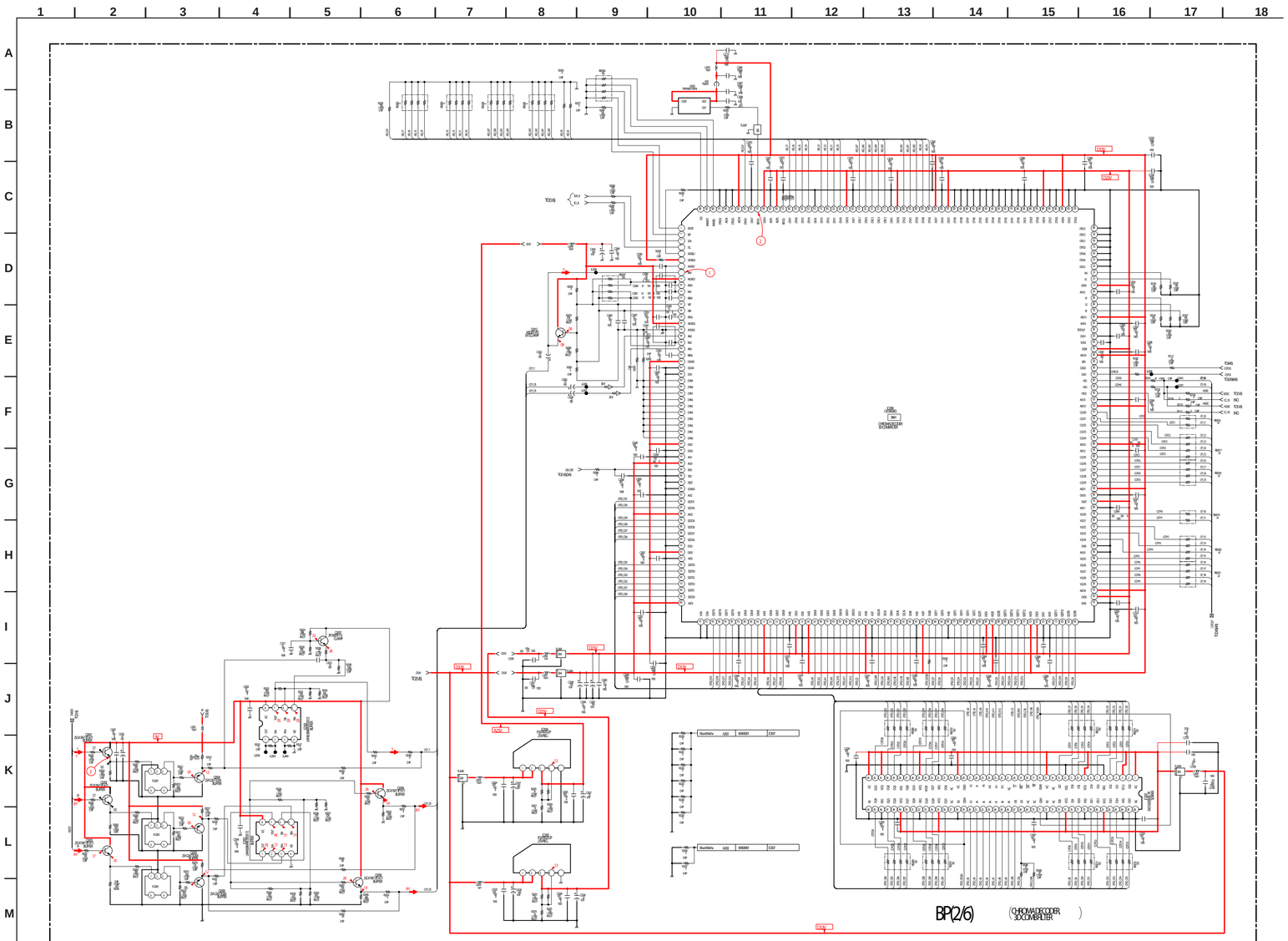


BP BOARD WAVEFORMS

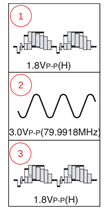
1
2.4Vp-p(16.384MHz)

2
1.8Vp-p(H)

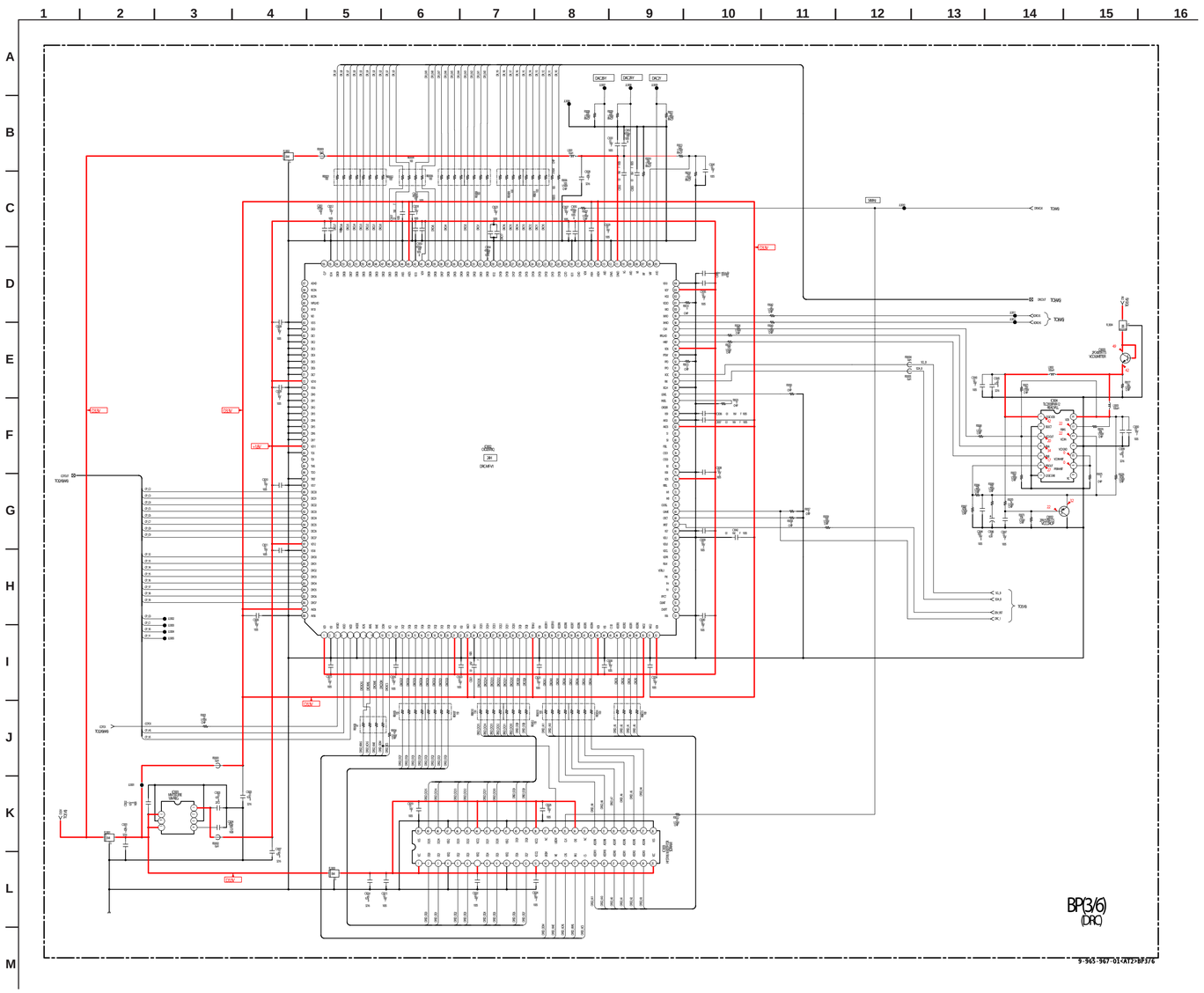
BP BOARD SCHEMATIC DIAGRAM (2 OF 6)



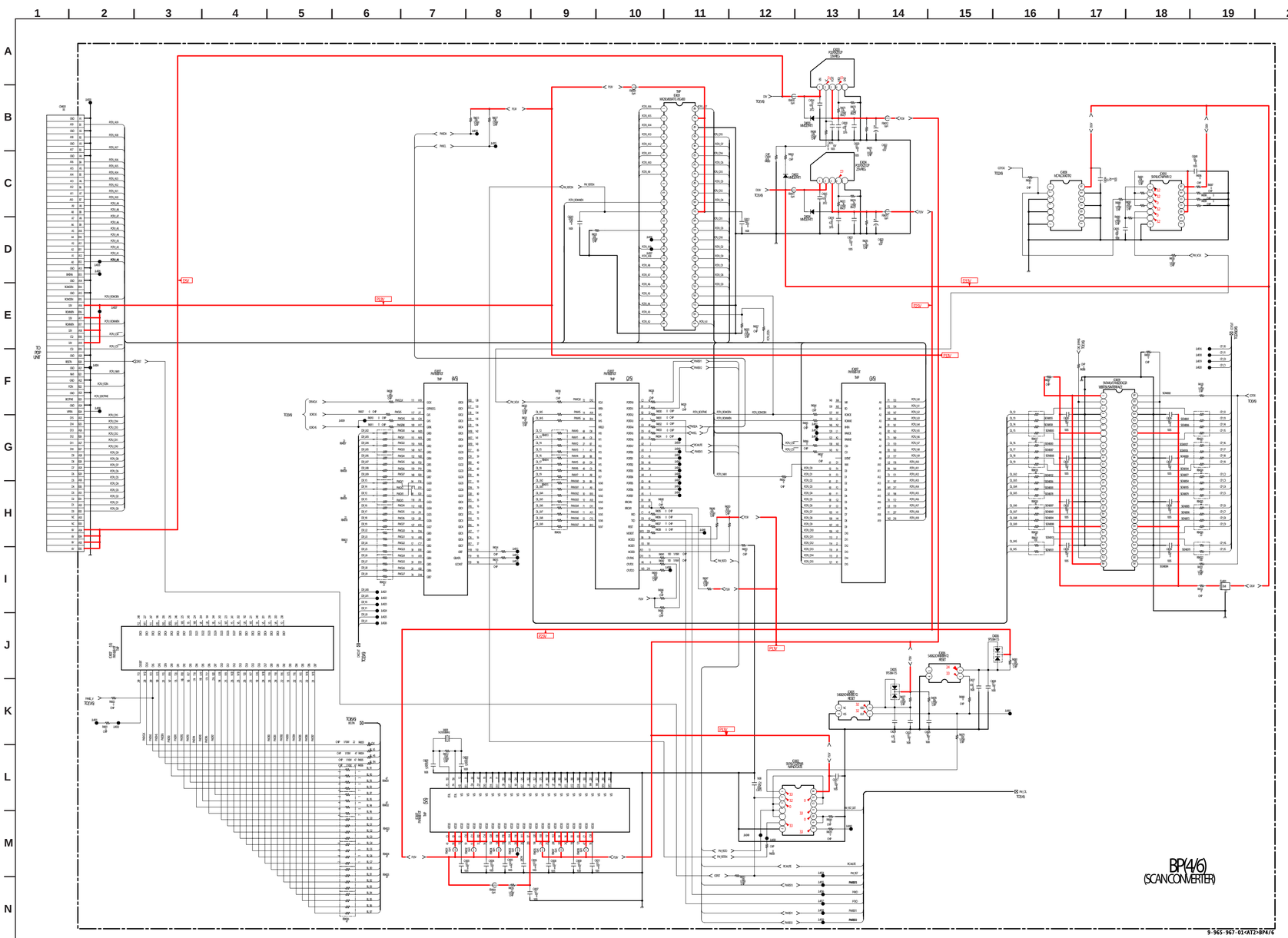
BP BOARD WAVEFORMS



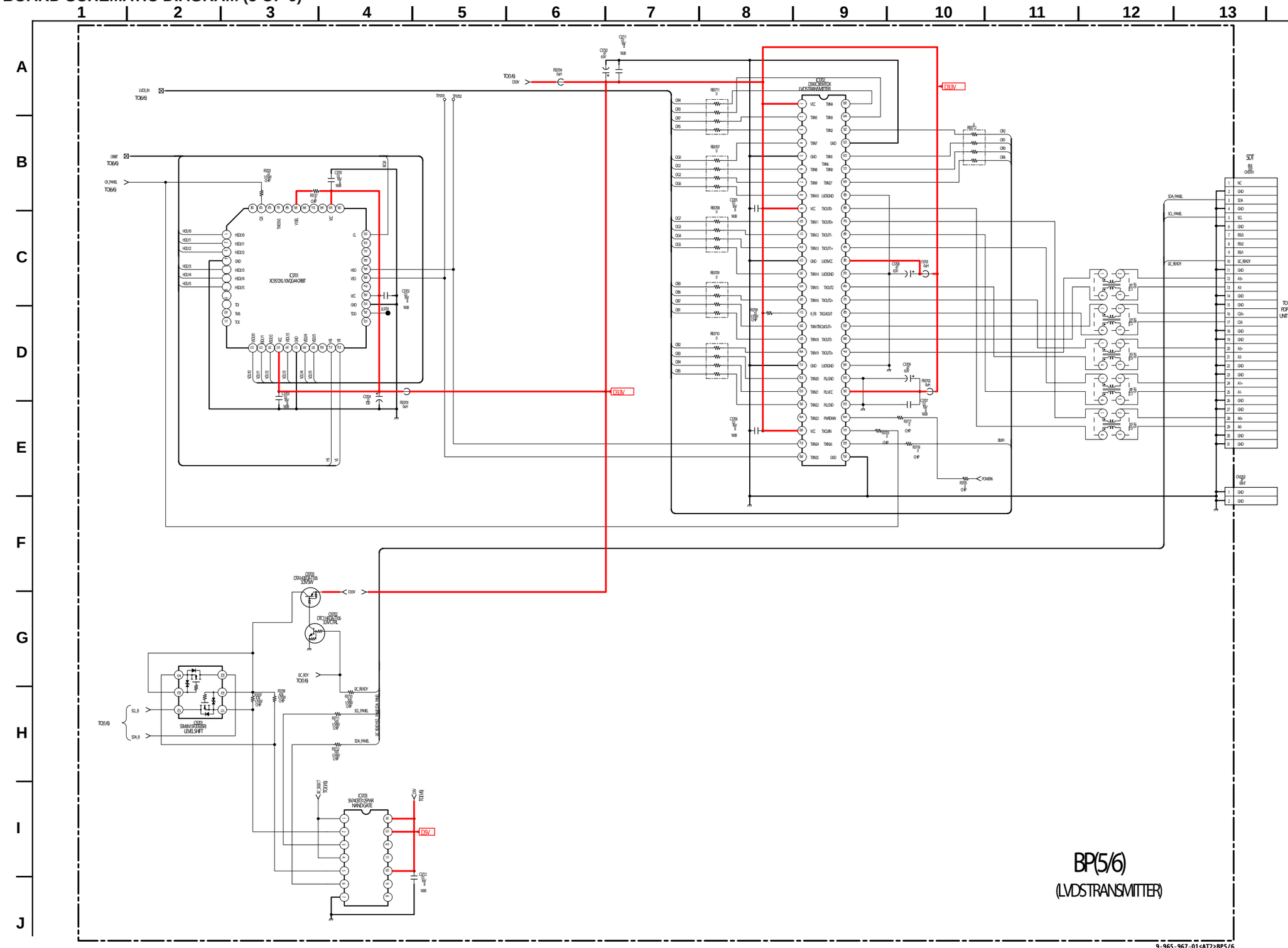
BP BOARD SCHEMATIC DIAGRAM (3 OF 6)



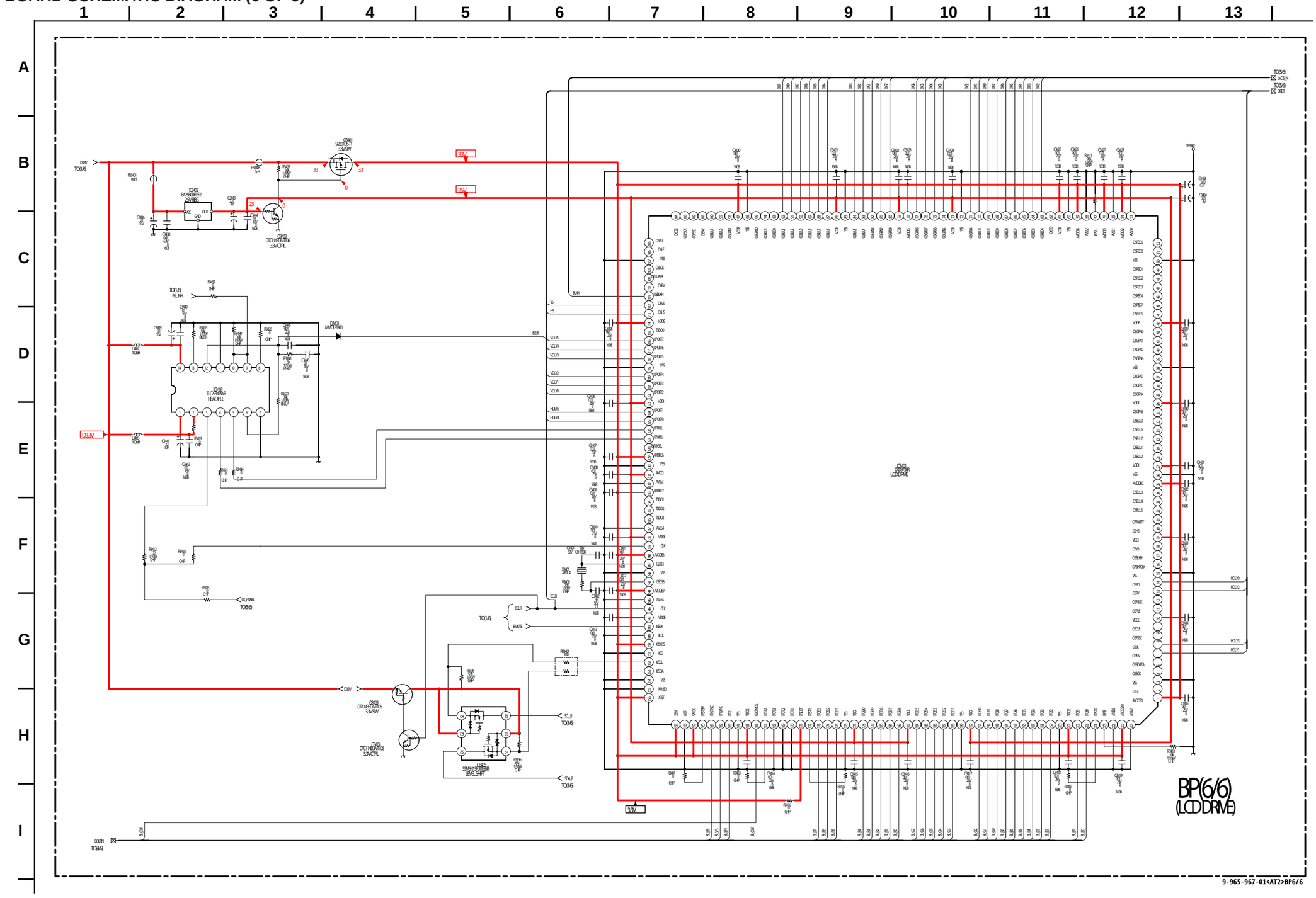
BP BOARD SCHEMATIC DIAGRAM (4 OF 6)



BP BOARD SCHEMATIC DIAGRAM (5 OF 6)



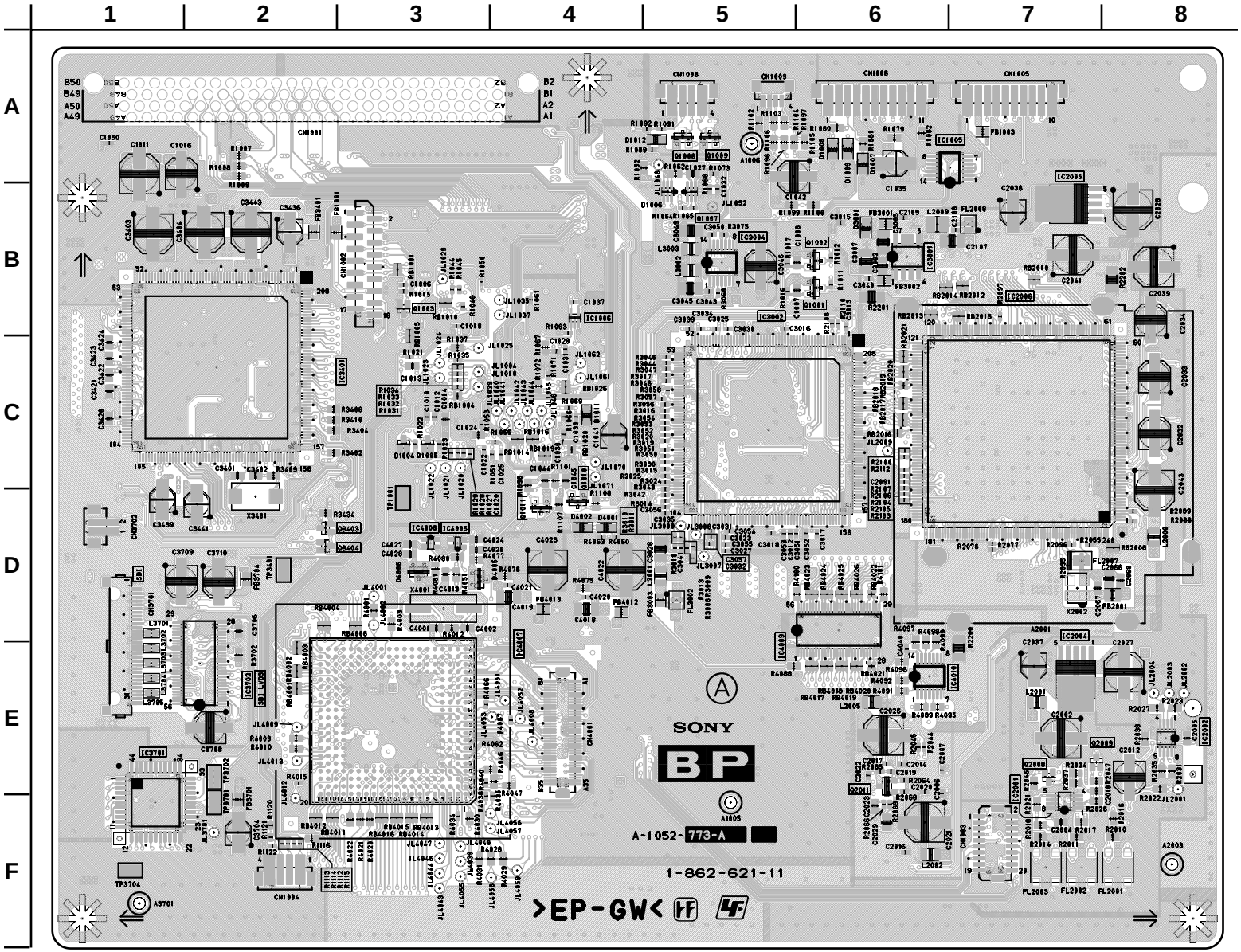
BP BOARD SCHEMATIC DIAGRAM (6 OF 6)



BP

[MAIN CPU, CHROMA DECODER, 3D COMB FILTER, DRC, SCAN CONVERTER, LVDS TRANSMITTER, LCD DRIVE]

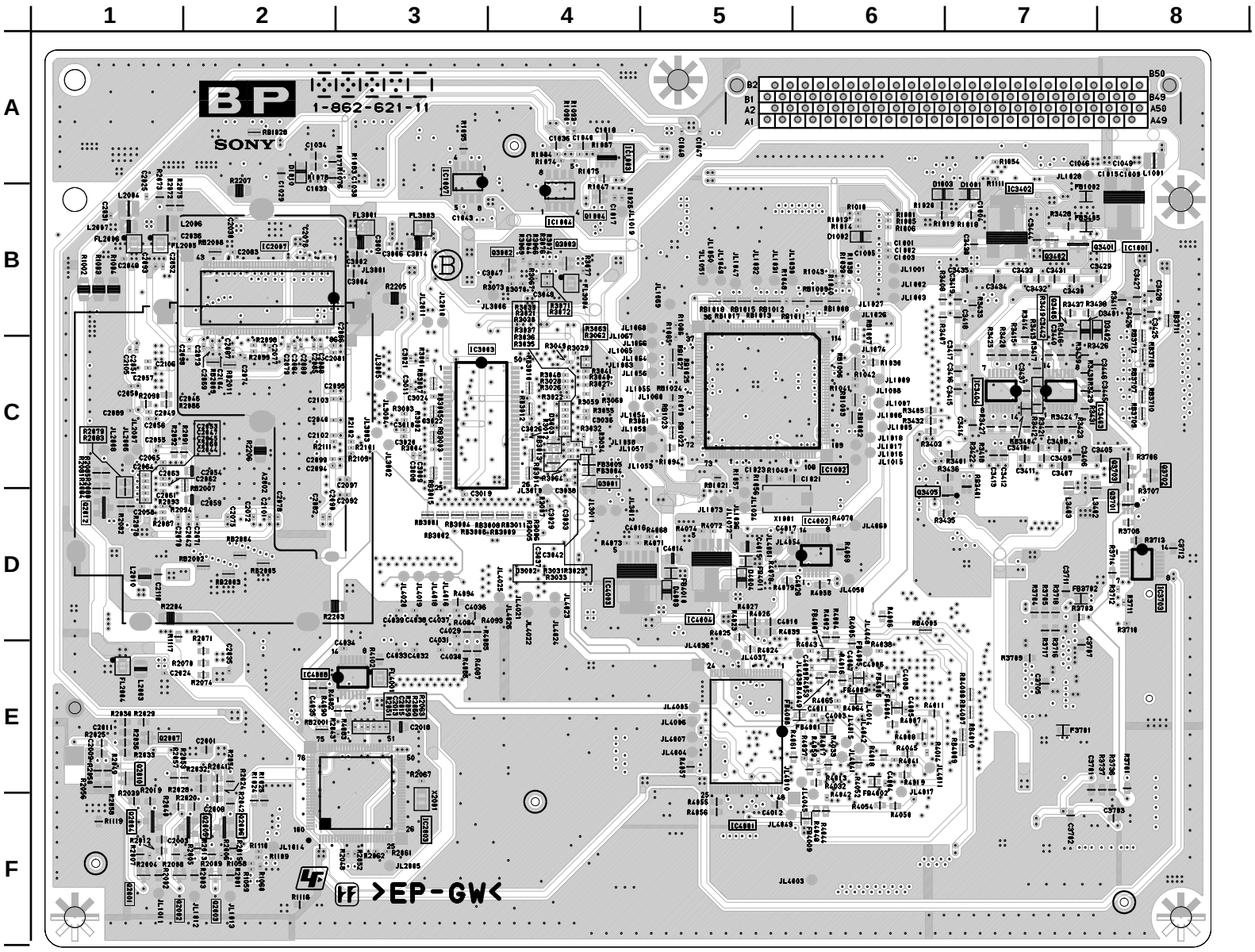
COMPONENT SIDE



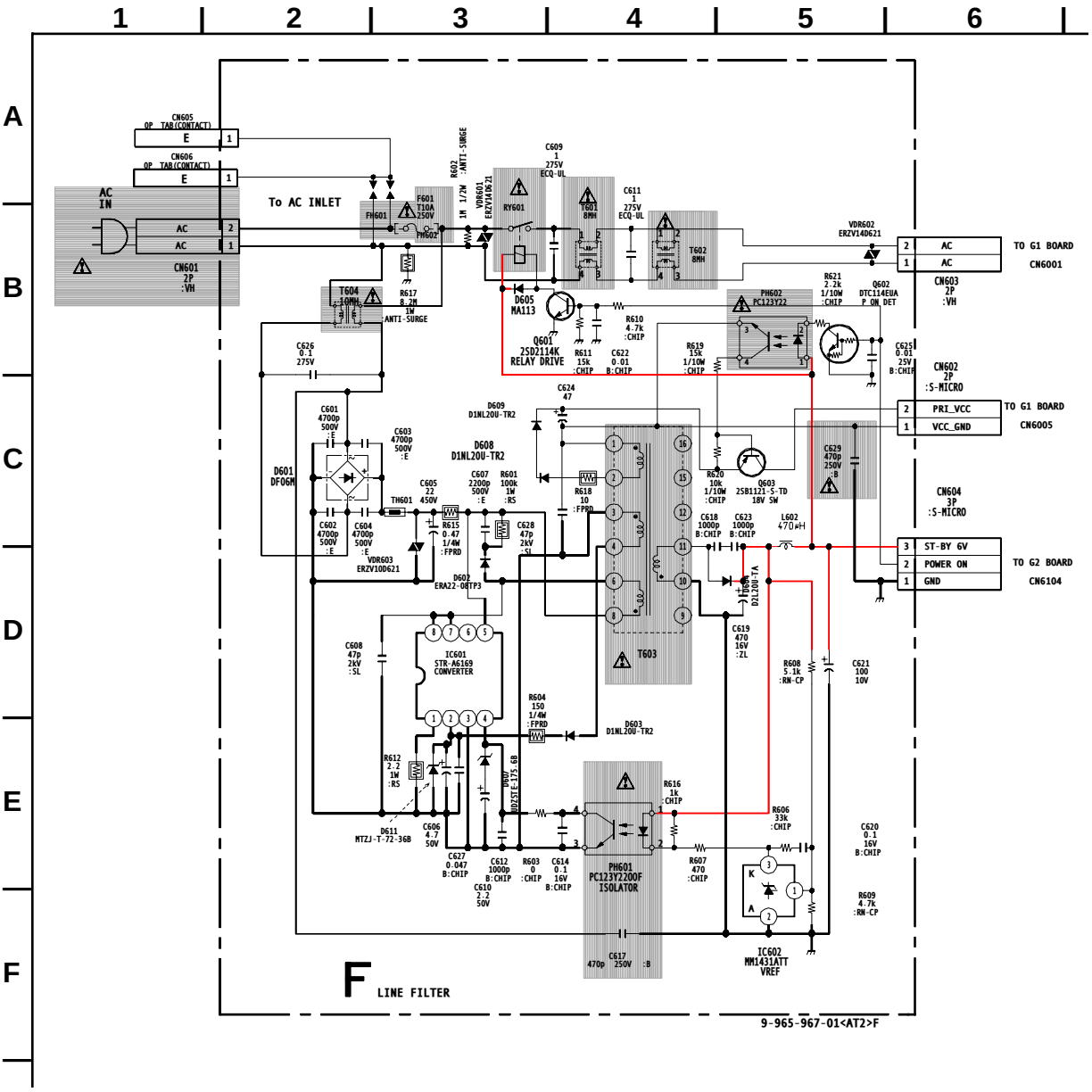
BP

[MAIN CPU, CHROMA DECODER, 3D COMB FILTER, DRC, SCAN CONVERTER, LVDS TRANSMITTER, LCD DRIVE]

CONDUCTOR SIDE

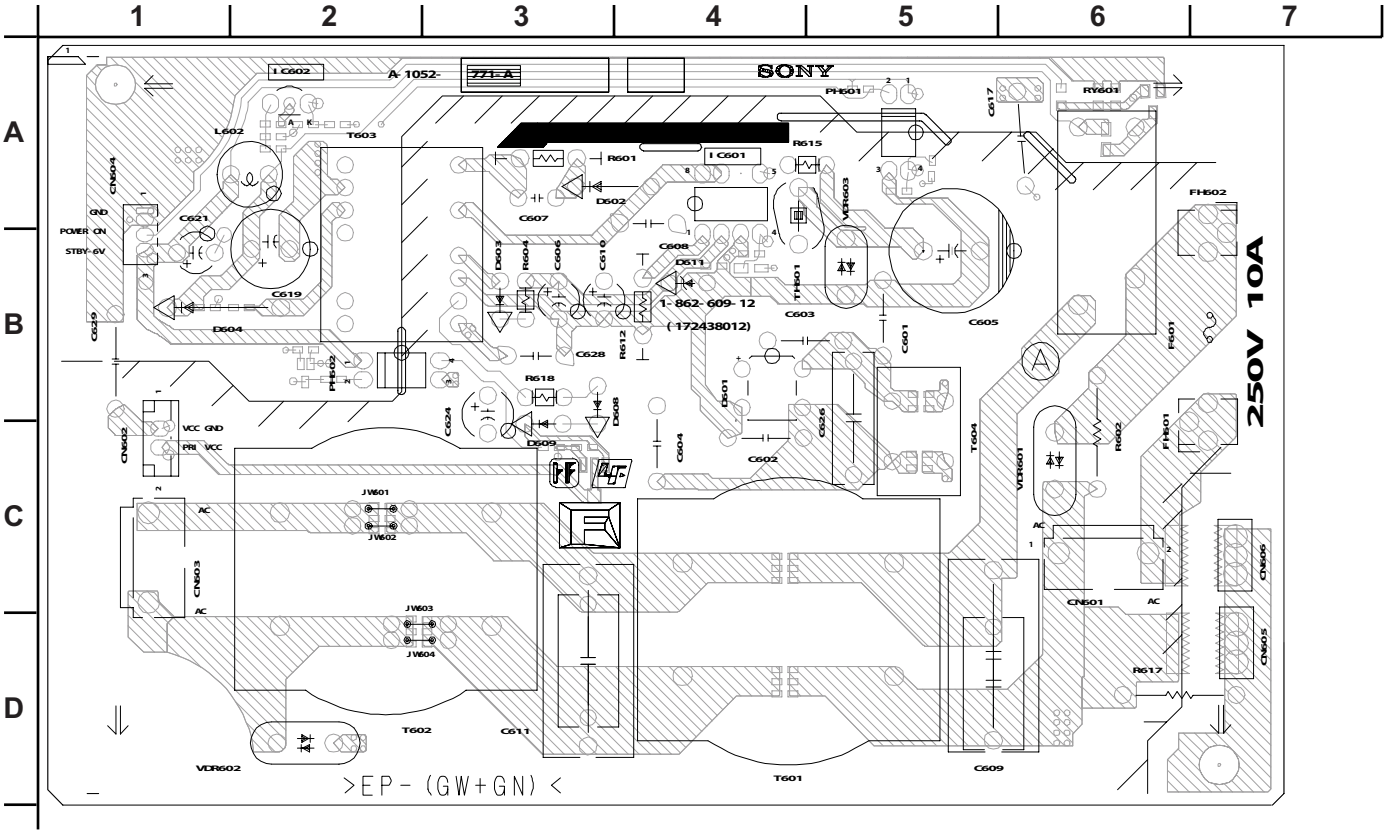


F BOARD SCHEMATIC DIAGRAM



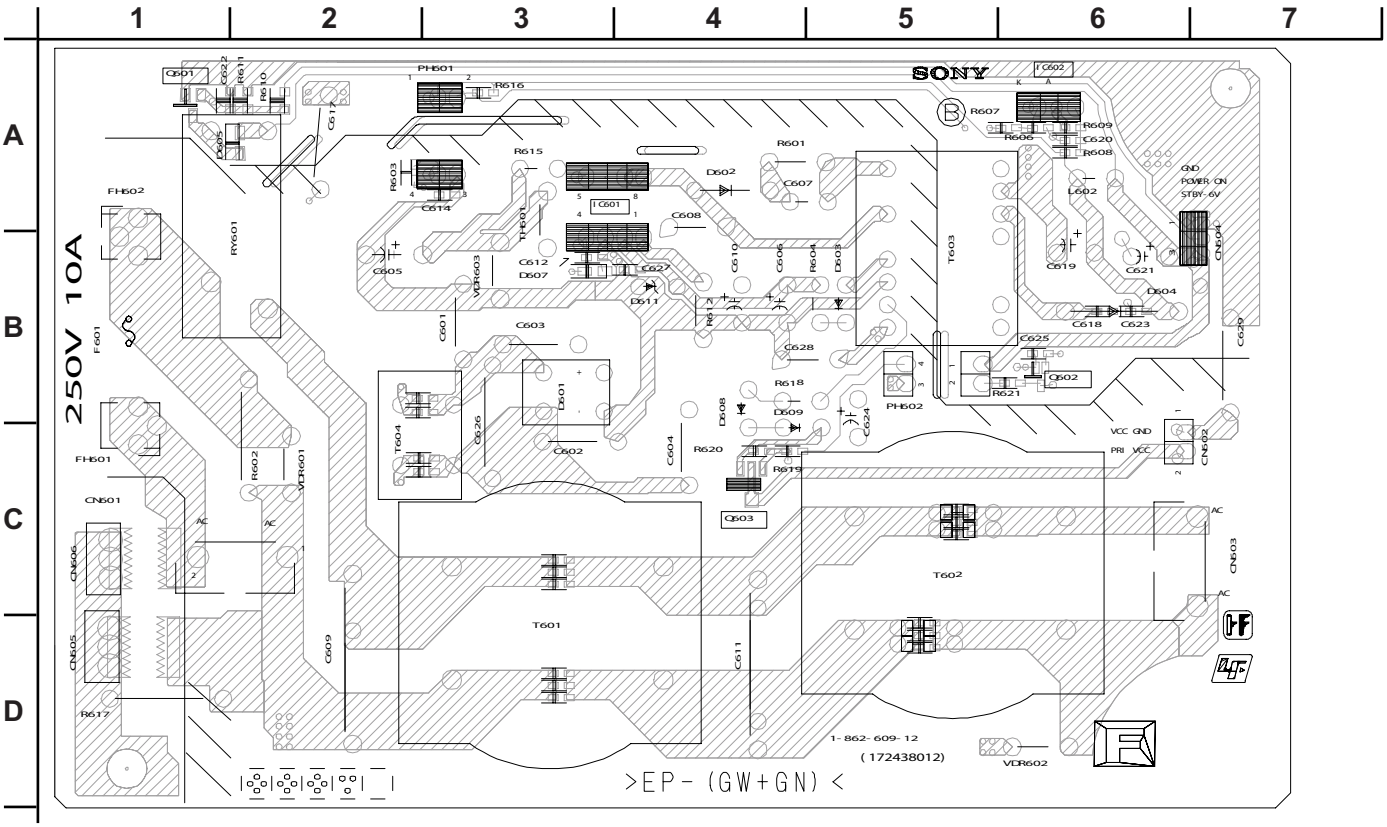
F [LINE FILTER]

COMPONENT SIDE

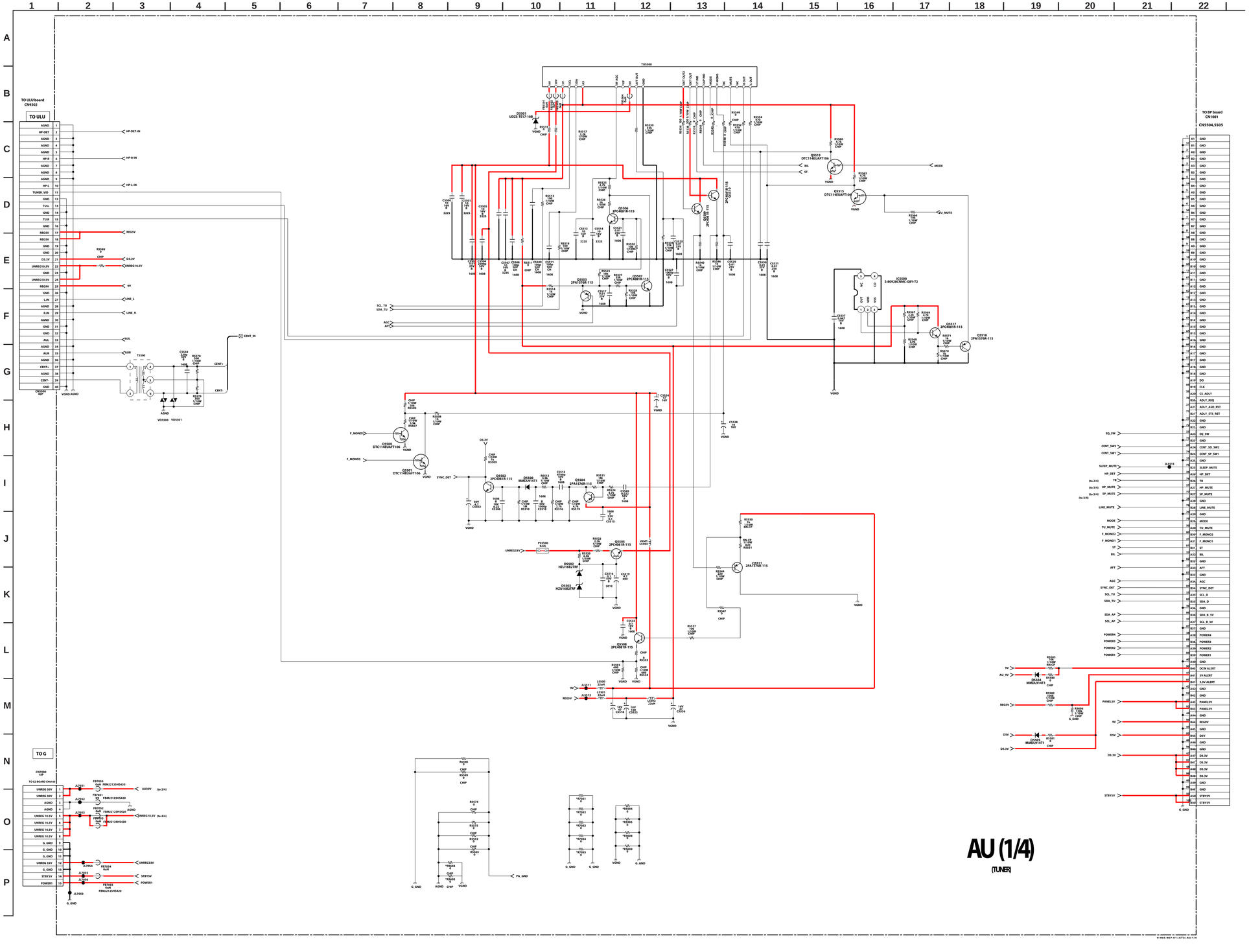


F [LINE FILTER]

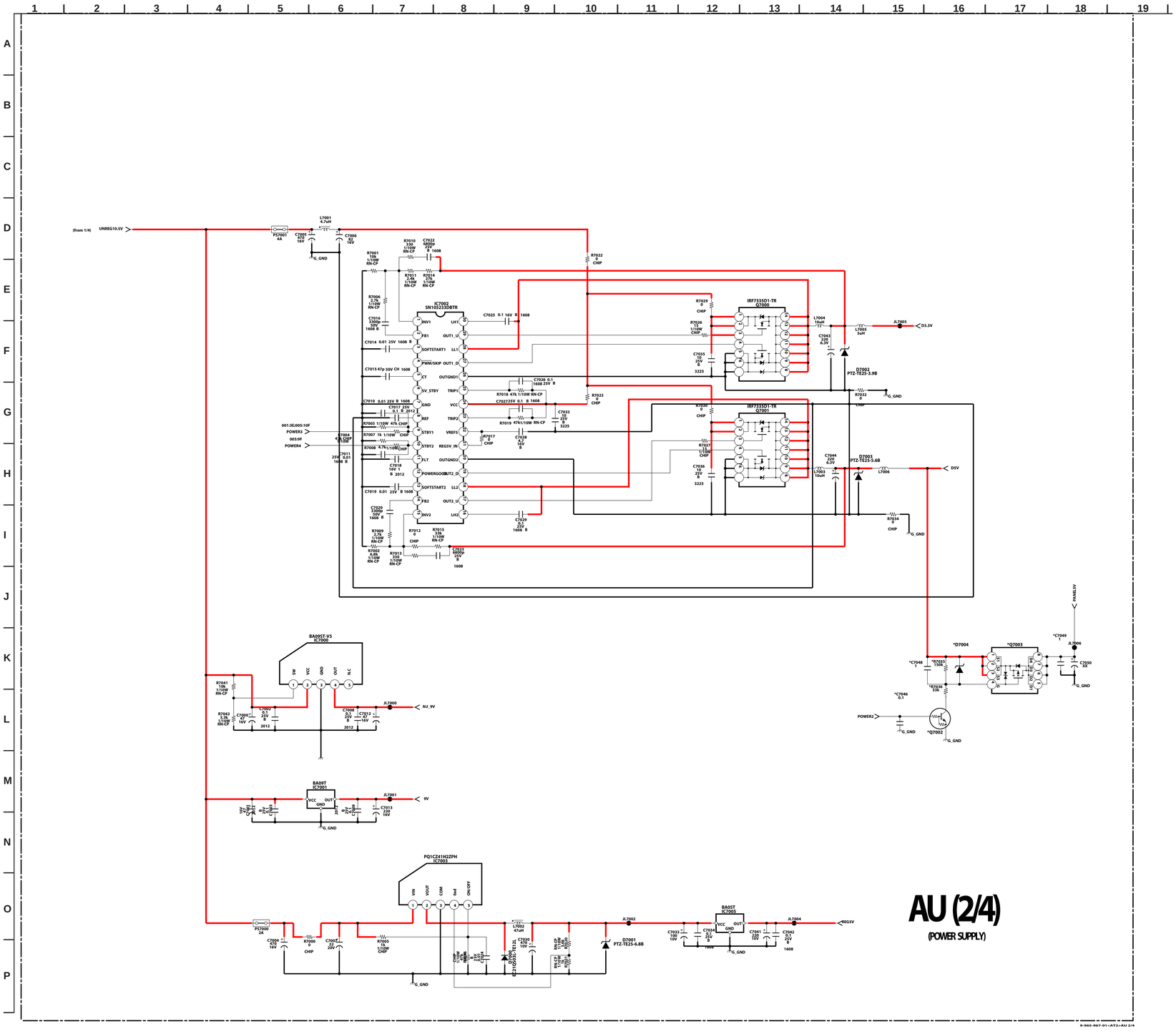
CONDUCTOR SIDE



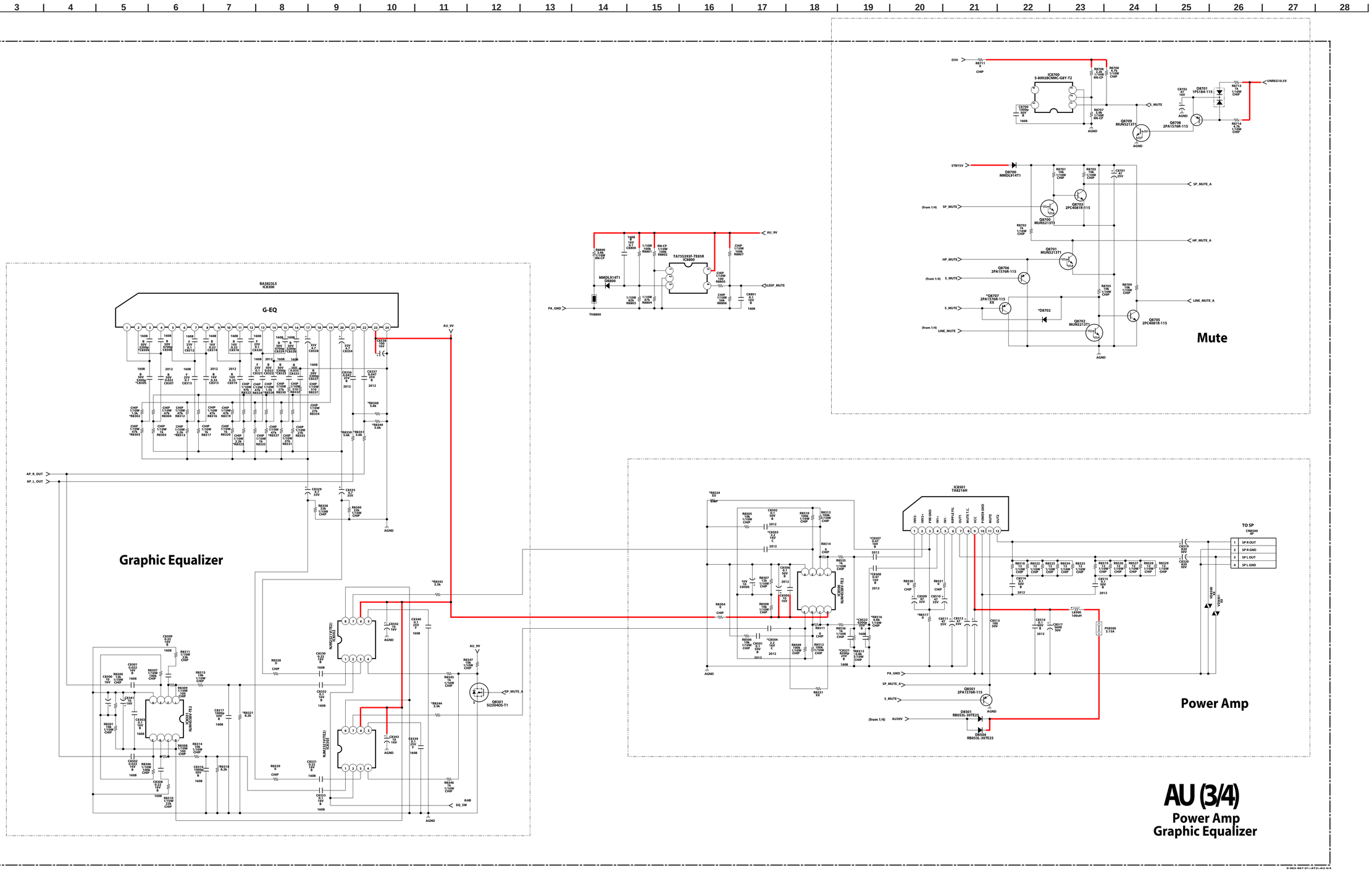
AU BOARD SCHEMATIC DIAGRAM (1 OF 4)



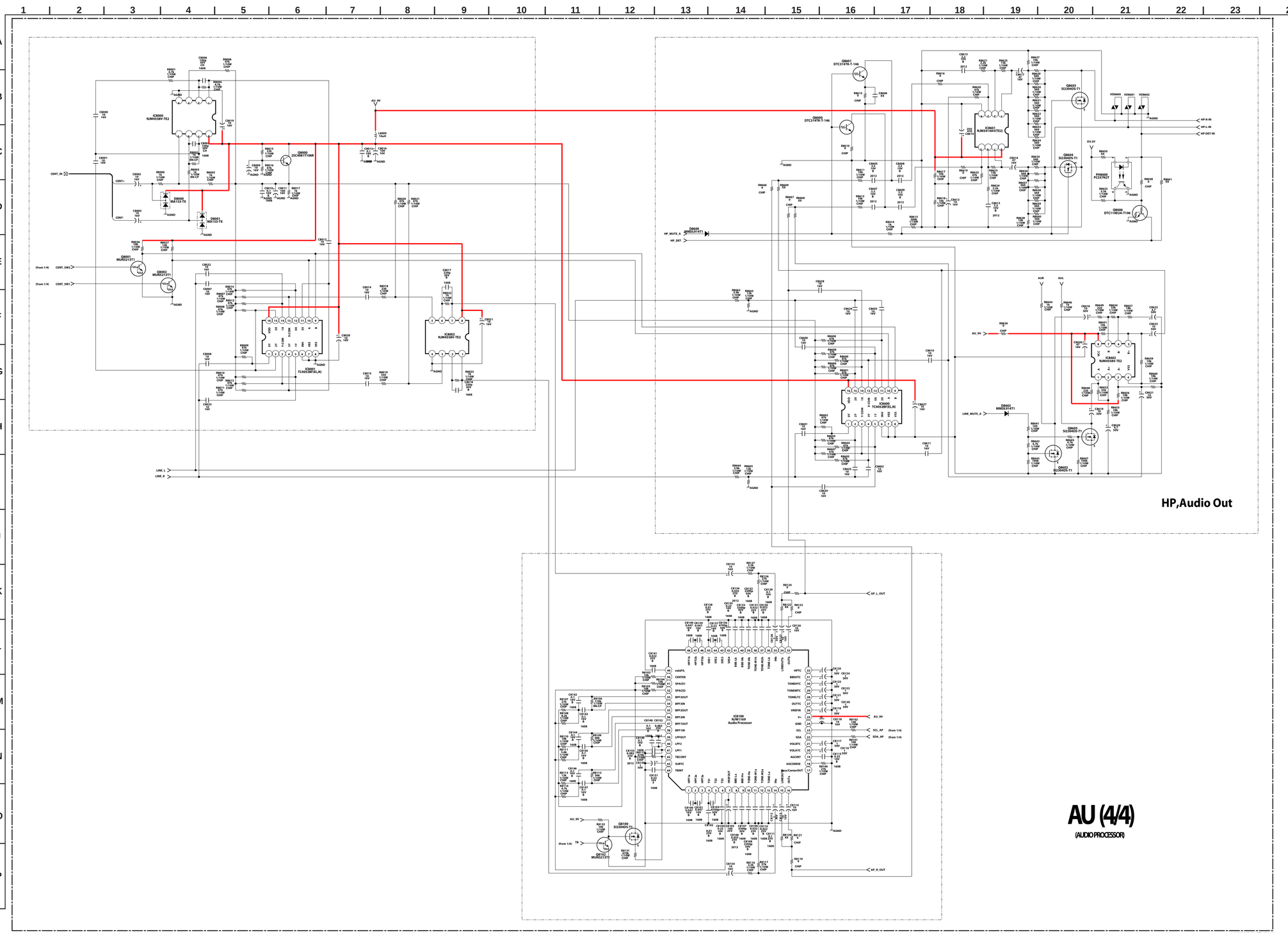
AU BOARD SCHEMATIC DIAGRAM (2 OF 4)



AU BOARD SCHEMATIC DIAGRAM (3 OF 4)



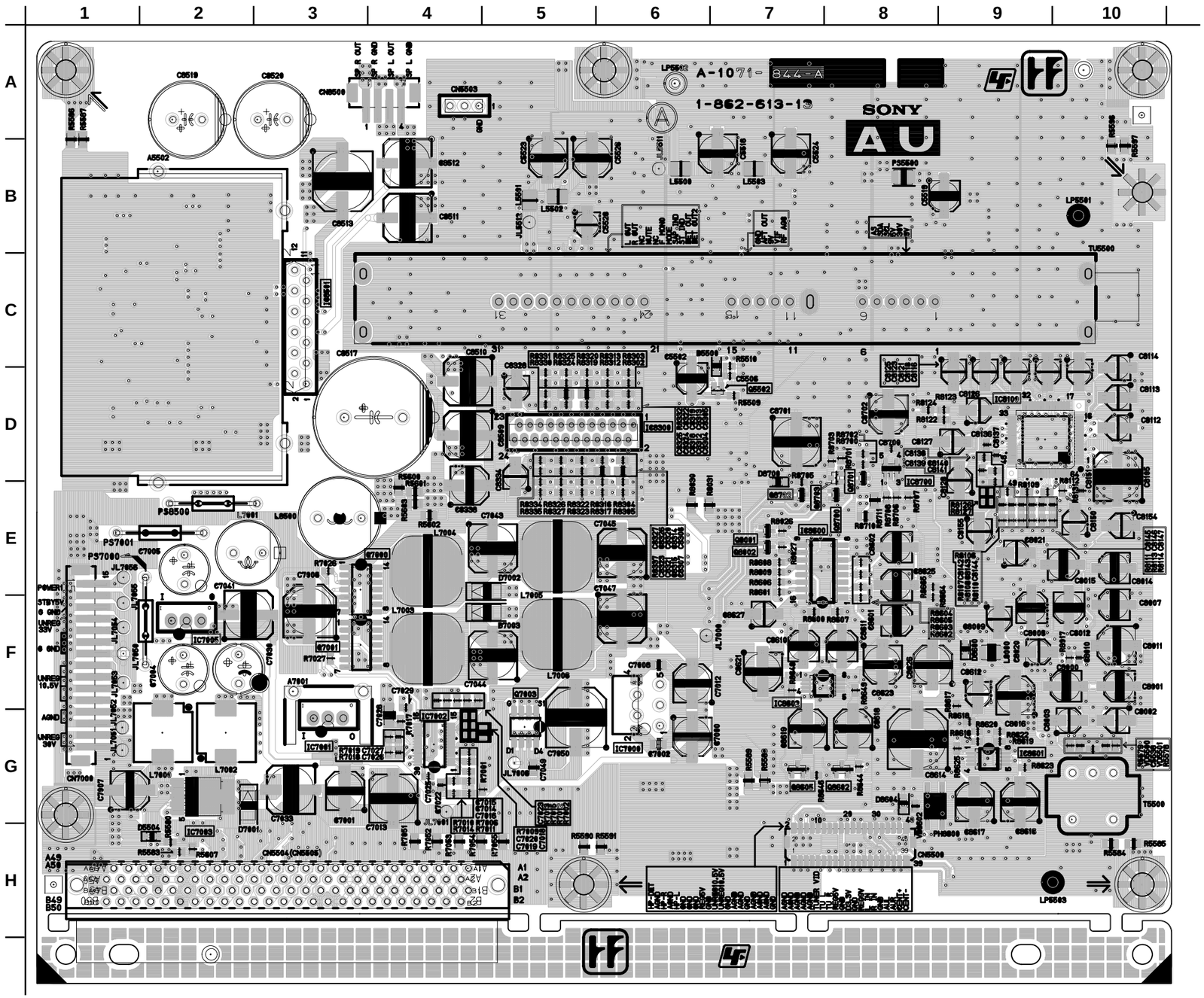
AU BOARD SCHEMATIC DIAGRAM (4 OF 4)



AU

[TUNER, POWER SUPPLY, POWER AMP, GRAPHIC EQUALIZER, AUDIO PROCESSOR]

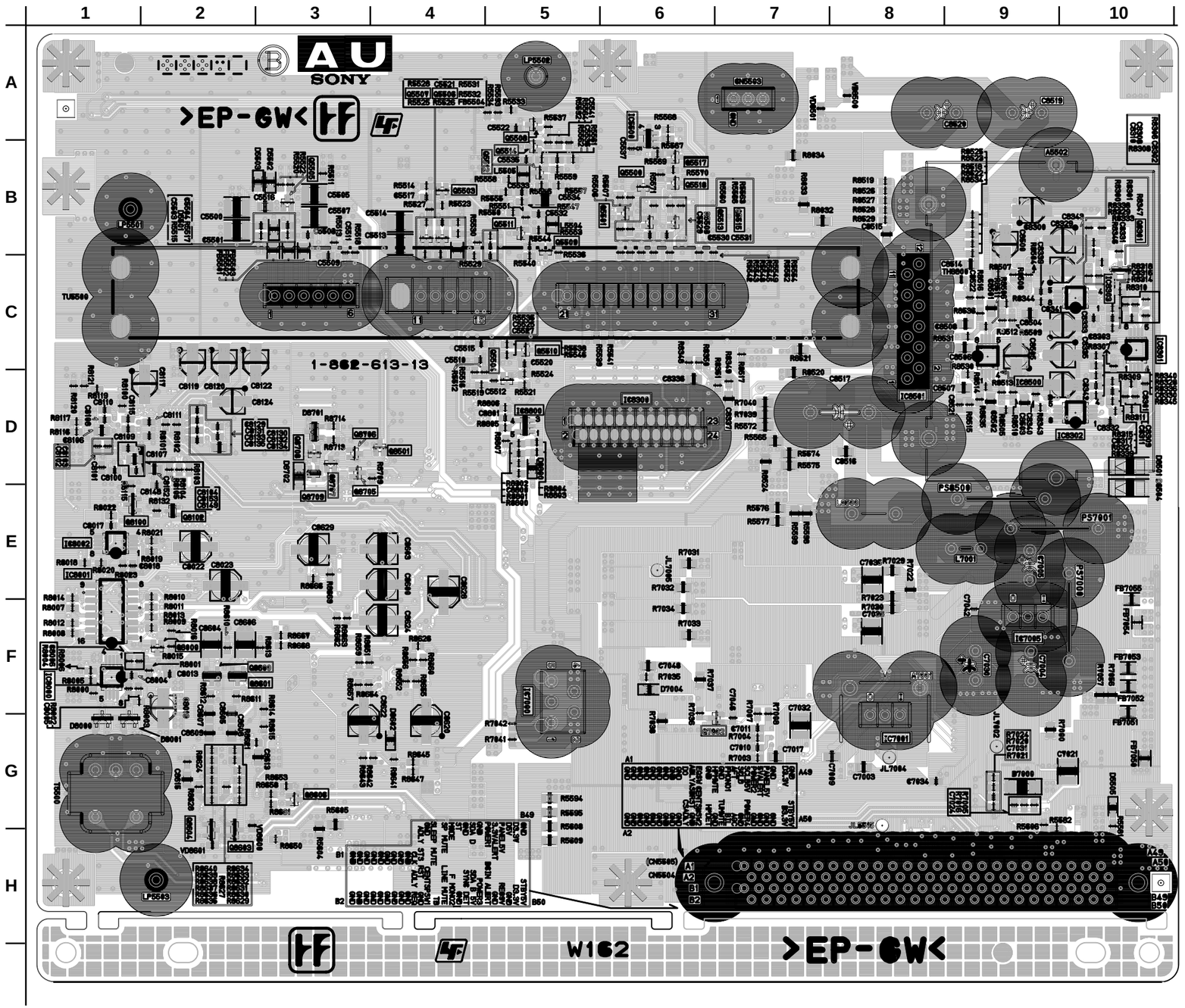
COMPONENT SIDE



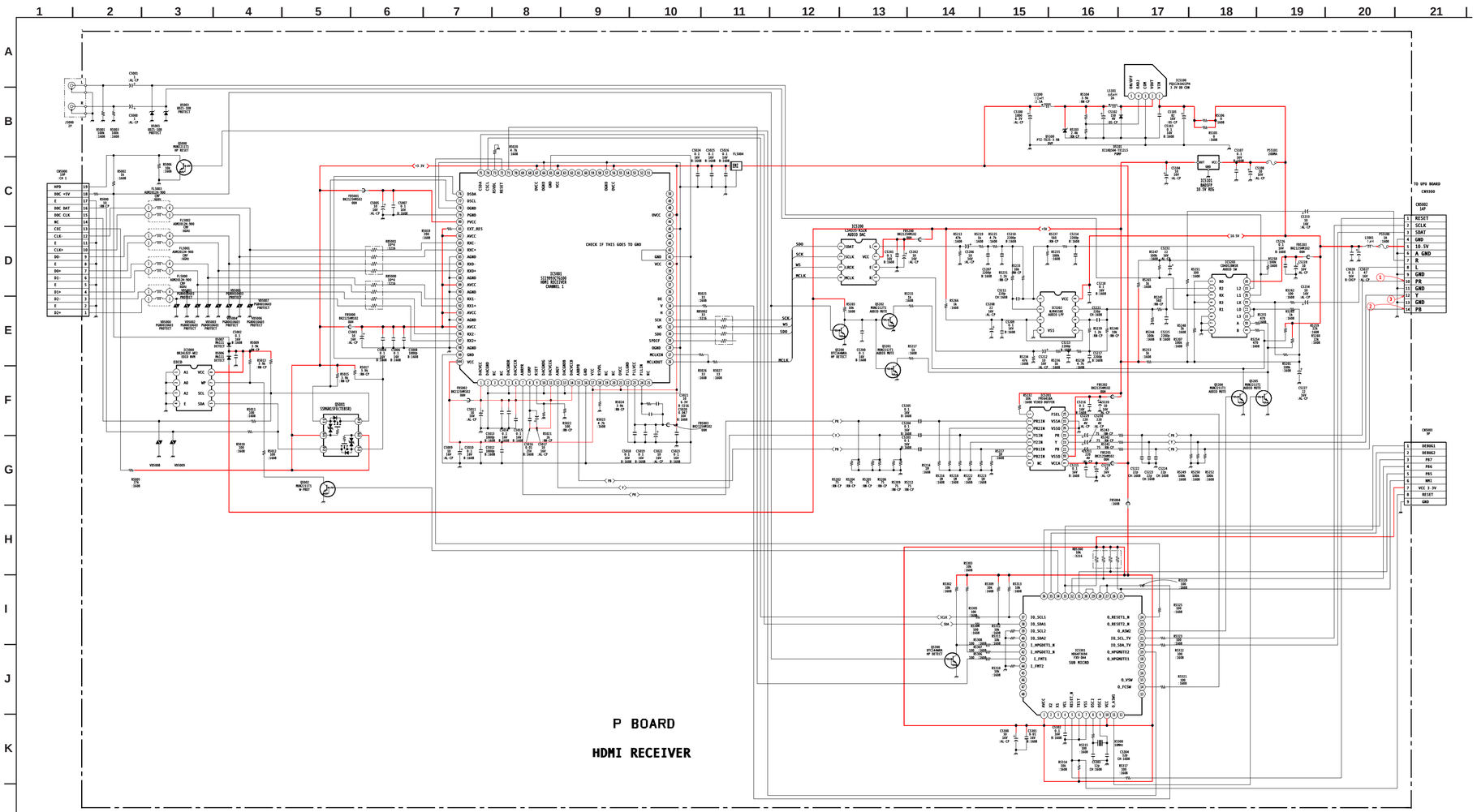
AU

[TUNER, POWER SUPPLY, POWER AMP, GRAPHIC EQUALIZER, AUDIO PROCESSOR]

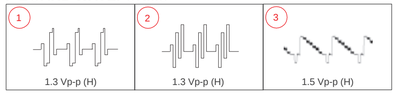
CONDUCTOR SIDE



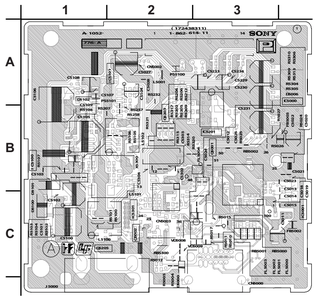
P BOARD SCHEMATIC DIAGRAM



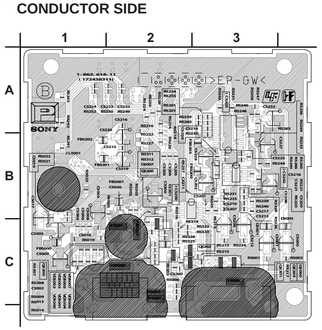
P BOARD WAVEFORMS



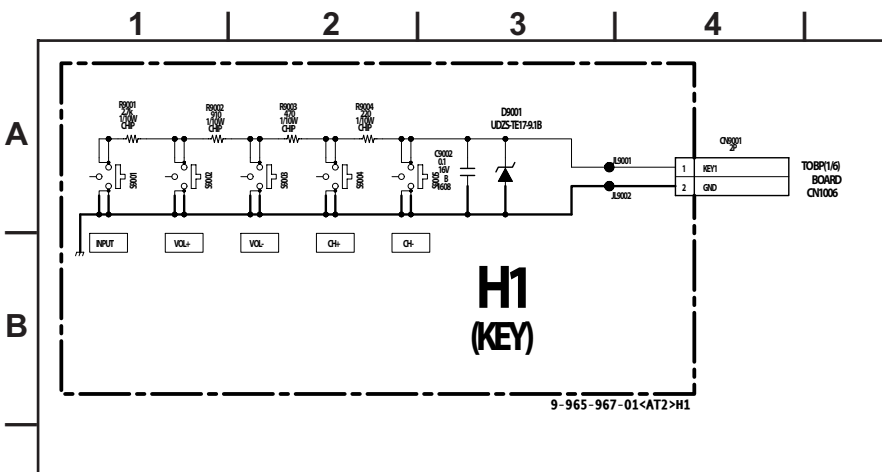
P [HDMI RECEIVER] COMPONENT SIDE



P [HDMI RECEIVER] CONDUCTOR SIDE

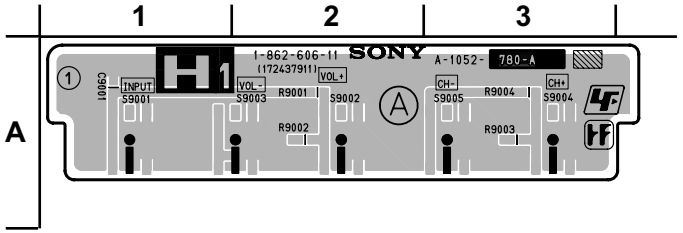


H1 BOARD SCHEMATIC DIAGRAM



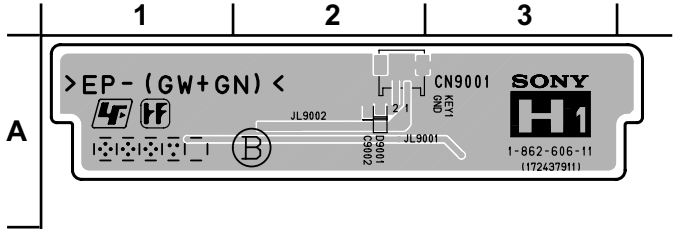
H1 [KEY]

COMPONENT SIDE

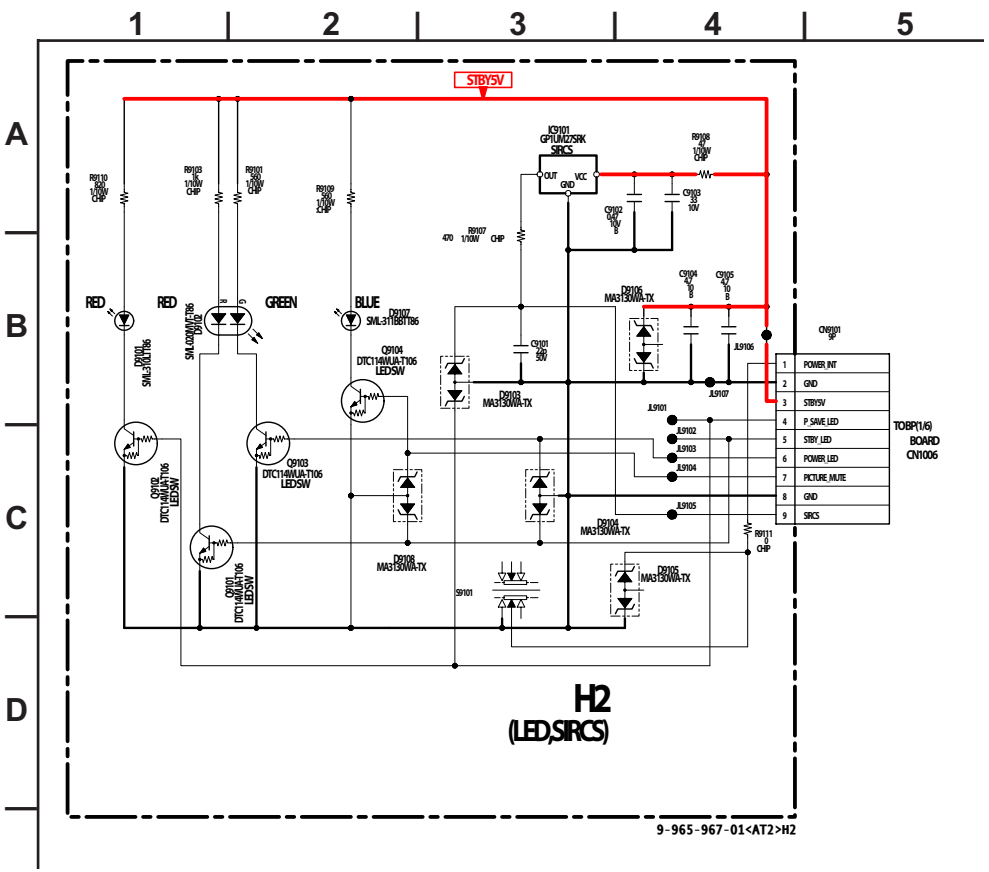


H1 [KEY]

CONDUCTOR SIDE

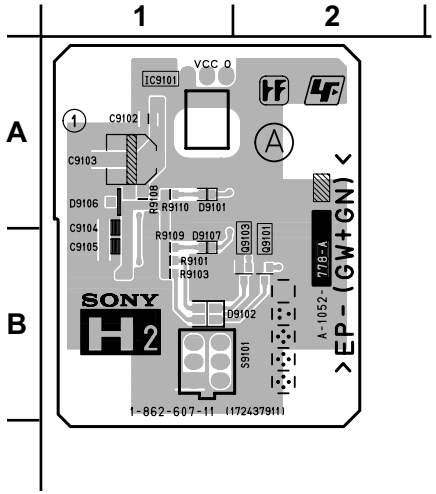


H2 BOARD SCHEMATIC DIAGRAM



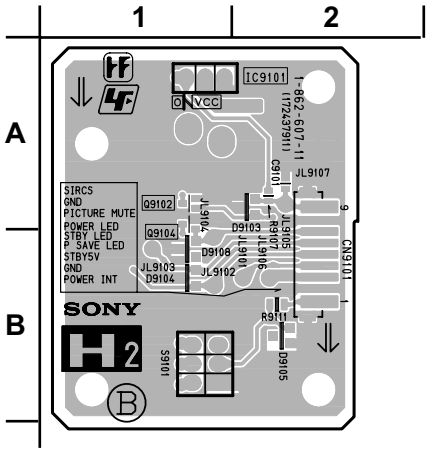
H2 [LED, SIRCS]

COMPONENT SIDE

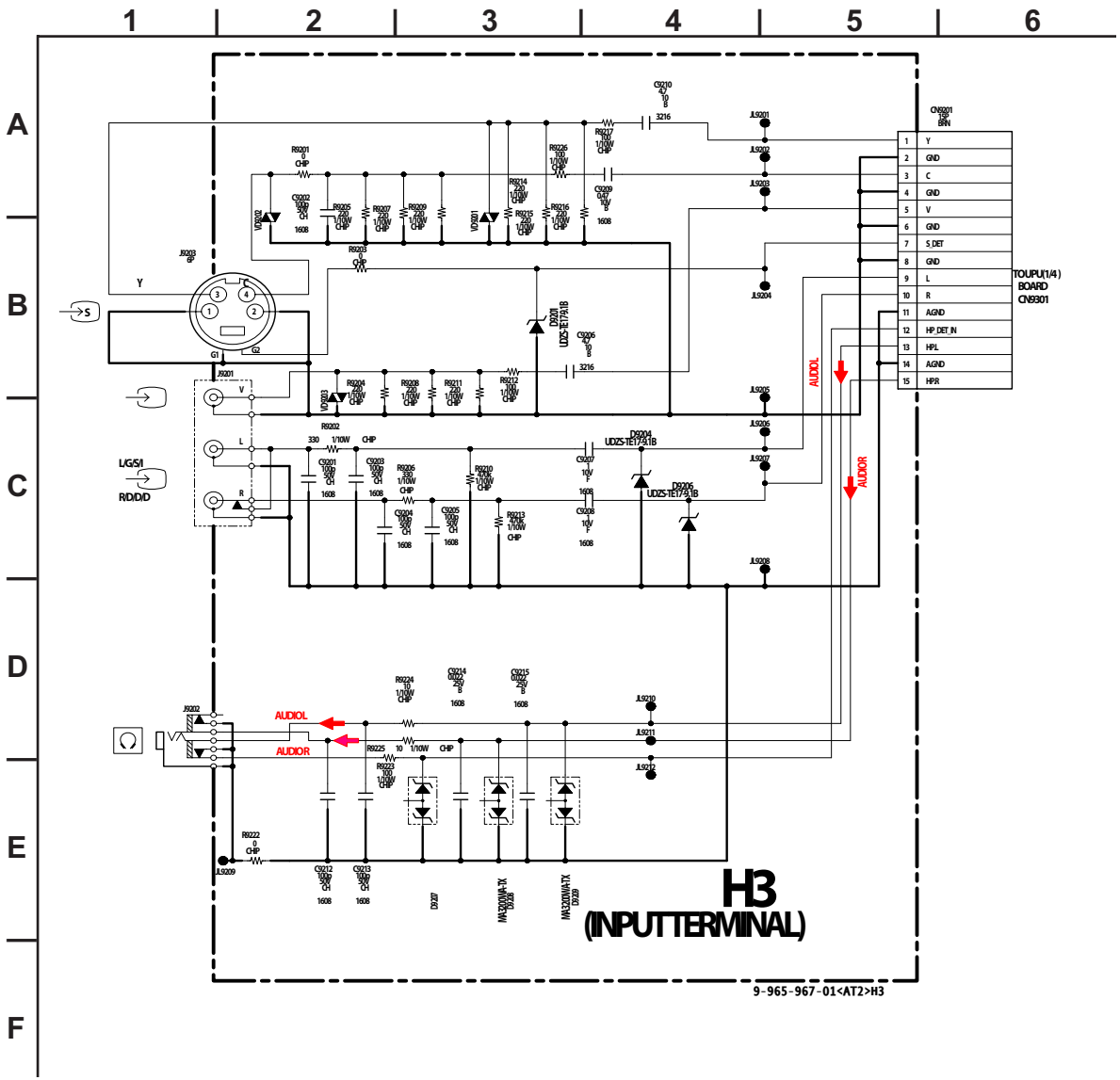


H2 [LED, SIRCS]

CONDUCTOR SIDE

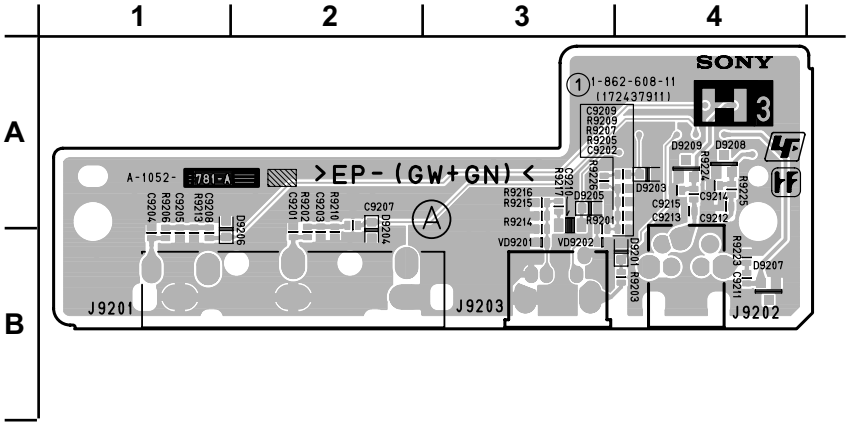


H3 BOARD SCHEMATIC DIAGRAM



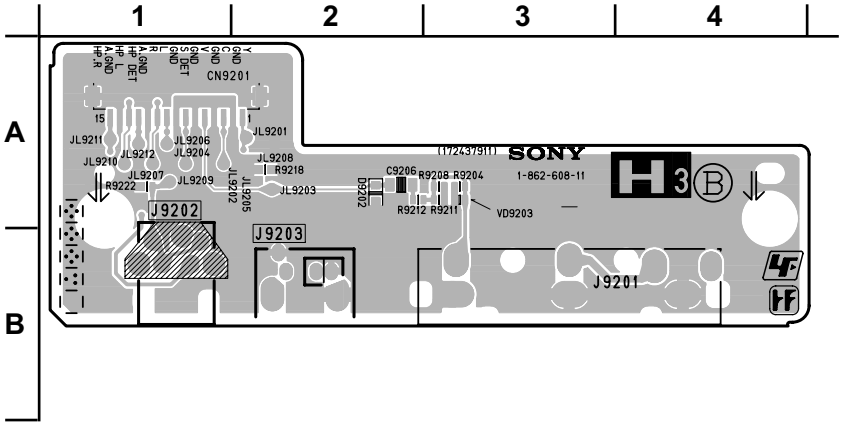
H3 [INPUT TERMINAL]

COMPONENT SIDE



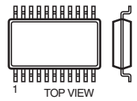
H3 [INPUT TERMINAL]

CONDUCTOR SIDE



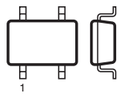
3-5. SEMICONDUCTORS

BA033F-E2
BR24C02F-WE2
BR24C16F-E2
CXA1211M
LM1881M
M24C64-WMN6T(B)
NJM2903M
NJM4558E(TE2)
PACDN006S
SI-3025LSA-TL
SN74CBTD3306PWR-12
SN74LV4053ANSR
TC4W53FU
TC7W14FU(TE12R)
TC7W241FU-TE12R
TC7W32FU
TC7WH125FU(TE12R)



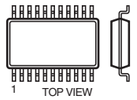
8 pin SOP

BA033FP-E2
BA05FP-E2
BA09FP-E2
BA12FP-E2
L88M05T-FA-TL
PST9143NL
SC7S04F
TC7SZ08FU(TE85R)



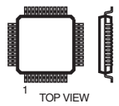
5 Pin CHIP

BA7078AF-E2
NJM2188M-TE2
SN74LV123APWR
SN74LV4053APWR
TC7S08FU(TE85R)
Z8622912SSC-00T



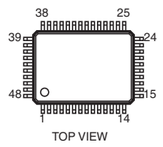
18 Pin SOP

CXA2089Q
MC141627FT

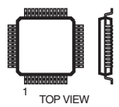


48 Pin QFP

CXA2163AQ-T6

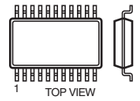


CXA3516R
GM7030-H
XC2S50-5TQ144C1



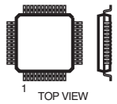
144 Pin QFP

CXD2057M-T6
TEA6422DT



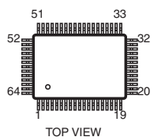
28 Pin SOP

CXD9606Q

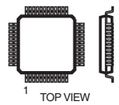


208 Pin QFP

CXP85324A-291Q

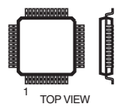


HD64F2633TE



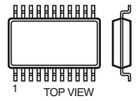
120 Pin QFP

IP00C713



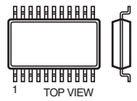
256 Pin QFP

K4S161622D-TC80
MSM56V16160F-10TS-K



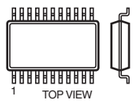
50 Pin SOP

MB90098APF-A-130-BND-ER
M52347FP-TE
TC74VHC541FT(EL)
TC74VHCT541AFT(EL)



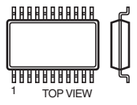
20 Pin SOP

M52758FP



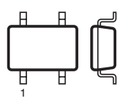
36 Pin SOP

RS5C348A-E2



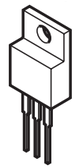
10 Pin SOP

S-80828ANNP-DER-T2
S-80828ANNP-ED6
S-80842ANNP-ED6-T2



4 Pin CHIP

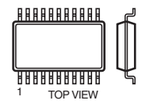
TA78M09F(TE16L)



TA8776N

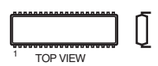
30 Pin DIP

TC74VHCT14AFT(EL)



14 Pin SOP

TDA2822D013TR

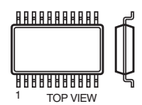


8 Pin DIP

TDA7480

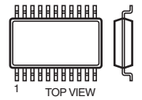
20 Pin DIP

THC63LVDM83R



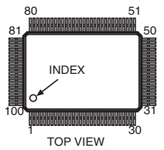
56 Pin SOP

TK11819MTL

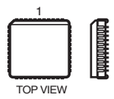


6 Pin SOP

UPD64083GF-3BA

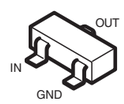


XC18V01PC20C

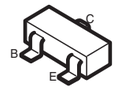


256 Pin QFJ

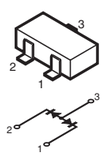
DTC114EU



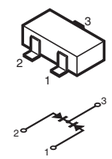
DTC114WUA-T106
DTC144EE
DTC144EKA
DTC144EKA-T146
DTC144EUA-T106
2SA1037AK-T146-QR
2SA1162-G
2SA1462-T1Y33Y34
2SA1462-Y33
2SA1774R
2SA1774TL-QR
2SB709A-QRS-TX
2SB709AR-115
2SC1623-L5L6
2SC2412K-T-146-QR
2SC4617R
2SD601A-Q-TX



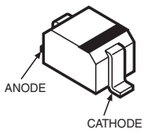
DAP202K
DAP222
MA3075WA-(TX)
MA3130WA-TX



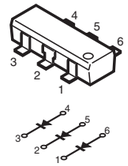
DAN202K



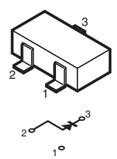
DTZ10B
MA111-TX
MA113-(TX)
RD10SB1-T1
RD5.6SB-T1
UDZSTE-1710B



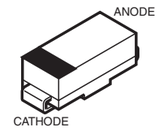
HN1D03FU-TE85L
HN1D03FU-TE85R



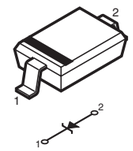
MA3100-TX
02CZ10-TE85L



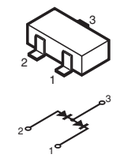
MA2S111-(K8).SO
NSQ03A06-TE16L



RD10SB1



MA157-TX
1SS226



SECTION 4: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

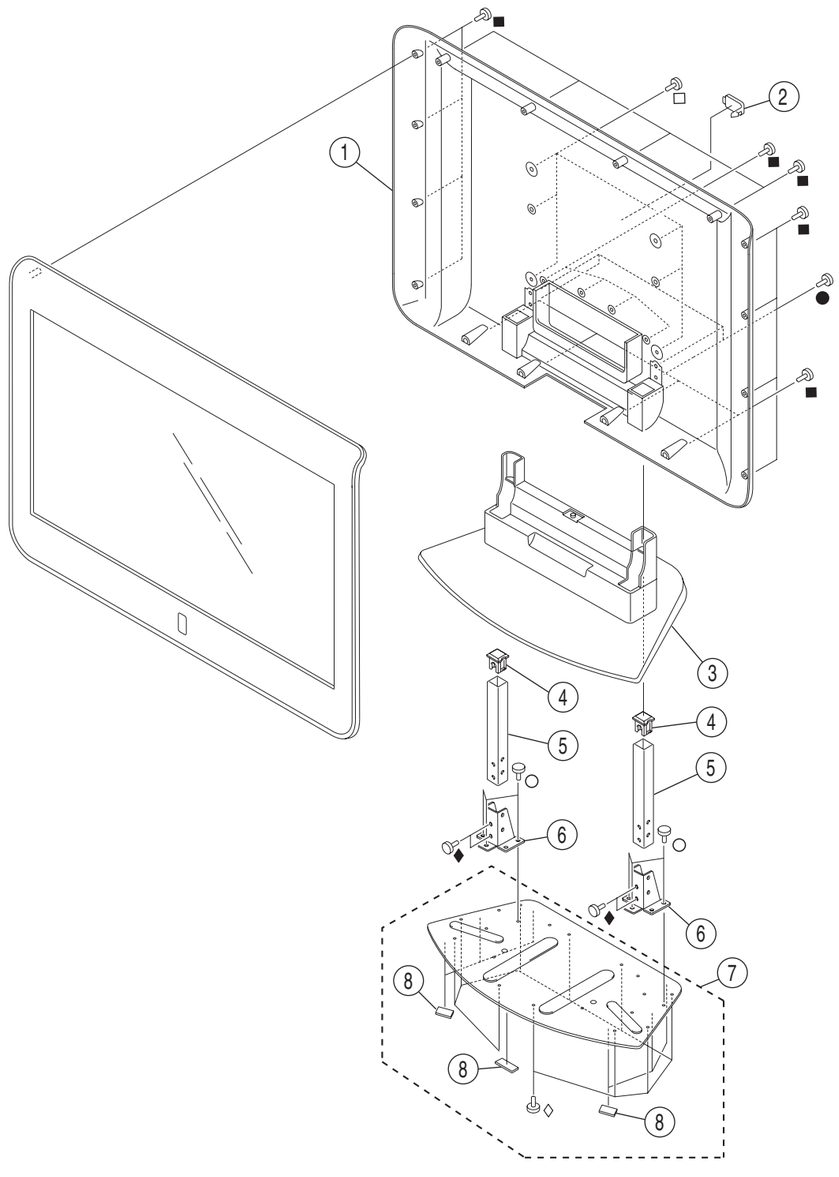
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

4-1. REAR COVER AND STAND

■	7-685-663-79	SCREW +BVTP 4X16 TYPE2 IT-3
□	7-682-961-01	SCREW +PSW 4X8
●	7-682-973-49	SCREW +PSW 5X16
○	7-682-973-09	SCREW +PSW 5X8
♦	7-628-000-07	SCREW +PSW M5X12
◇	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3



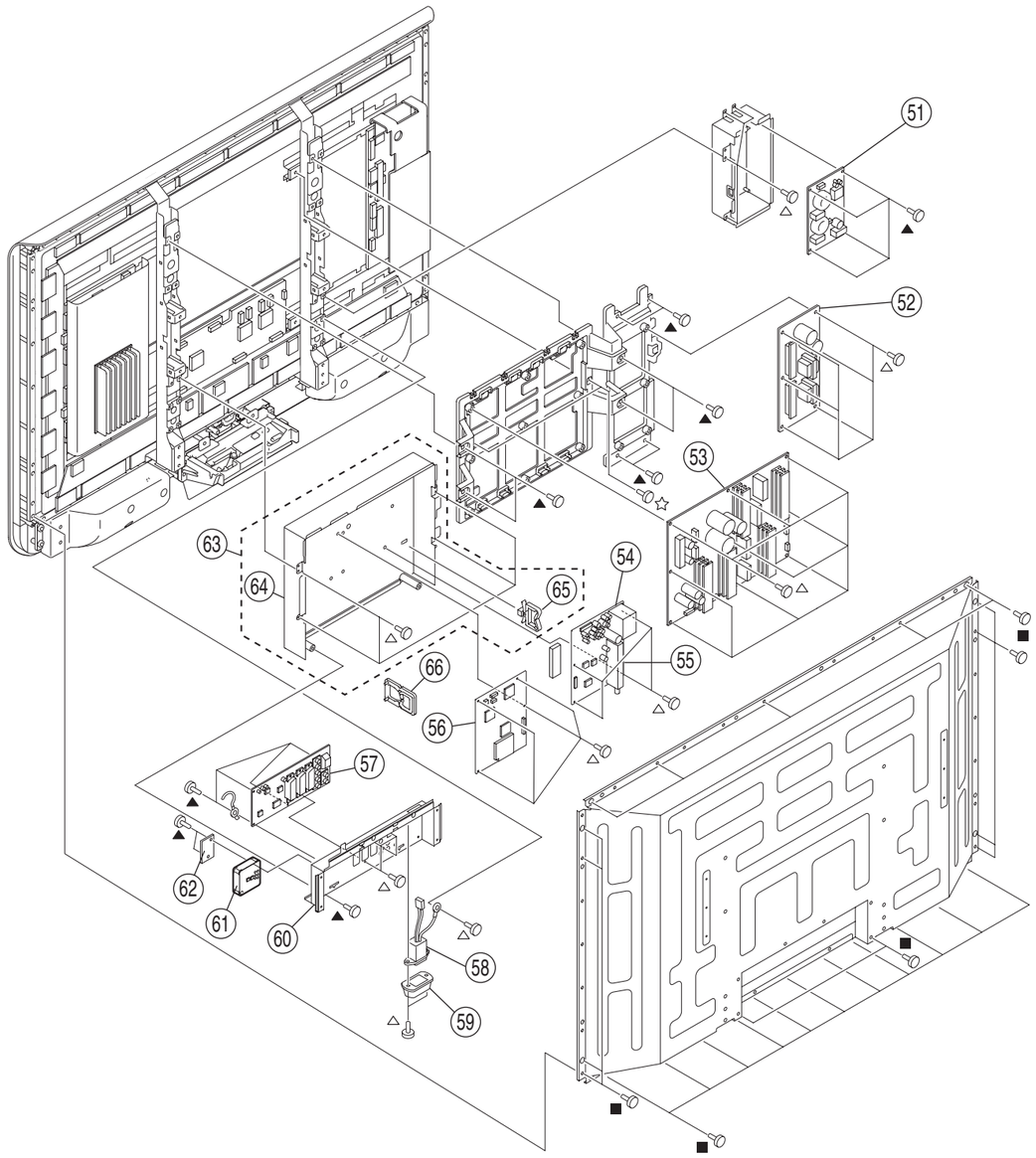
REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
1	2-021-798-01	COVER, REAR	
2	2-050-243-01	COVER, ECS	
3	X-2021-112-3	COVER ASSY, STAND	
4	4-098-263-01	CAP (42), STAND	
5	2-021-801-01	FRAME, STAND BASE	
6	4-098-262-03	BRACKET (42), STAND BASE	
7	X-2021-098-1	BASE ASSY, STAND	[8]
8	2-021-805-01	FOOT	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

4-2. CHASSIS

■	7-685-663-79	SCREW +BVTP 4X16 TYPE2 IT-3
▲	7-682-948-01	SCREW +PSW 3X8
△	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3
☆	7-682-950-09	SCREW +PSW 3X12



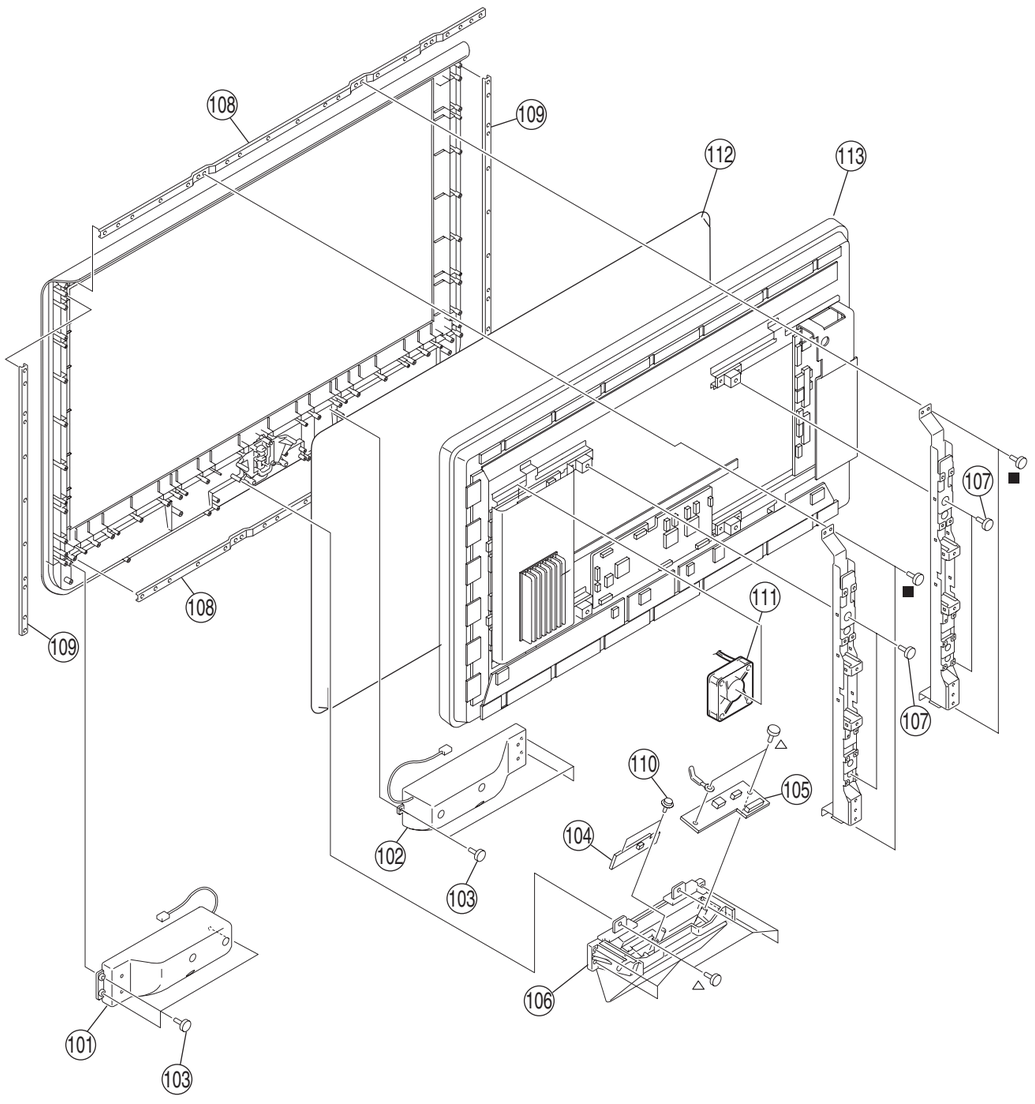
	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
*	51	A-1052-771-A	F BOARD, MOUNTED	
*	52	A-1068-014-A	G1 BOARD, COMPLETE	
*	53	A-1068-016-A	G2 BOARD, COMPLETE	
	54	A-1052-775-A	AU BOARD, MOUNTED	
	55	8-598-593-60	TUNER, FSS BTF-WA421	
*	56	A-1052-773-B	BP BOARD, MOUNTED	
*	57	A-1052-774-A	UPU BOARD, MOUNTED	
⚠	58	1-818-653-11	INLET, AC (WITH NOISE FILTER)	
	59	2-990-241-02	HOLDER (A), PLUG	
	60	X-2021-093-1	BRACKET ASSY, U	
	61	2-021-777-02	SHIELD (LOWER), P	
*	62	A-1052-776-B	P BOARD, MOUNTED	
	63	X-2021-677-3	BRACKET ASSY, PWB	[64-65]
	64	2-021-775-01	BRACKET, PWB	
*	65	3-633-259-01	SADDLE, RE-USE WIRE	
*	66	4-091-688-11	HOLDER, EDGE	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

4-3. FRONT PANEL

■	7-685-663-79	SCREW +BVTP	4X16 TYPE2 IT-3
△	7-685-648-79	SCREW +BVTP	3X12 TYPE2 IT-3



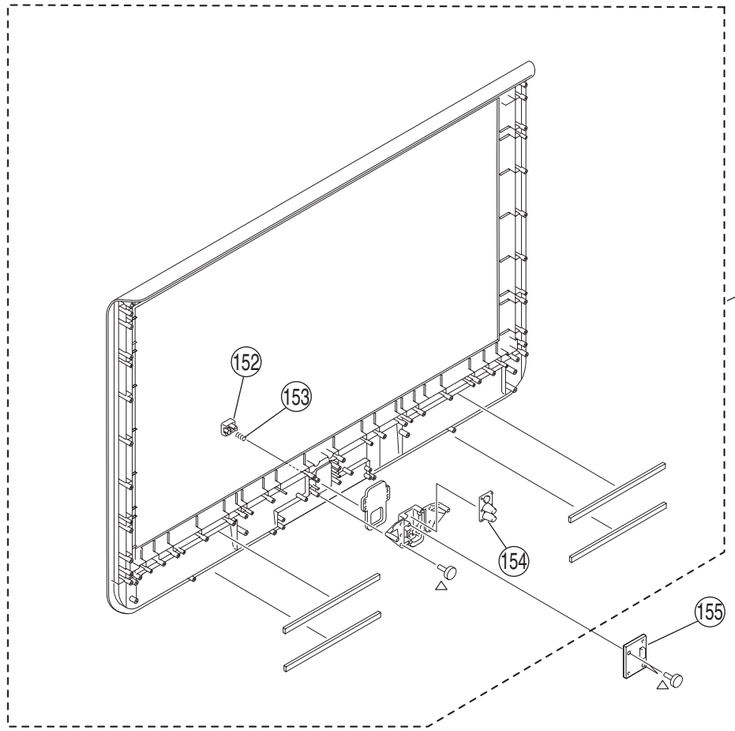
	REF. NO.	PART NO.	DESCRIPTION
	101	1-825-876-11	LOUDSPEAKER
	102	1-825-877-11	LOUDSPEAKER
	103	4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)
*	104	A-1052-780-A	H1 BOARD, MOUNTED
	105	A-1071-720-A	H3 BOARD, MOUNTED
	106	X-2021-455-2	FRONT TERMINAL ASSY
	107	2-350-305-11	SCREW
*	108	X-2021-095-1	BRACKET (H) ASSY, FILTER
*	109	X-2021-096-1	BRACKET (V) ASSY, FILTER
	110	4-029-432-01	SCREW (3X12), (+) BVWHTP
	111	1-763-962-11	FAN, D.C.
	112	1-788-114-11	GLASS OPTICAL FILTER
☛	113	A-1078-833-A	PDP MODULE ASSEMBLY

NOTE: The components identified by shading and ⚠ mark are critical for safety.
Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

4-4. BEZEL ASSEMBLY

△	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

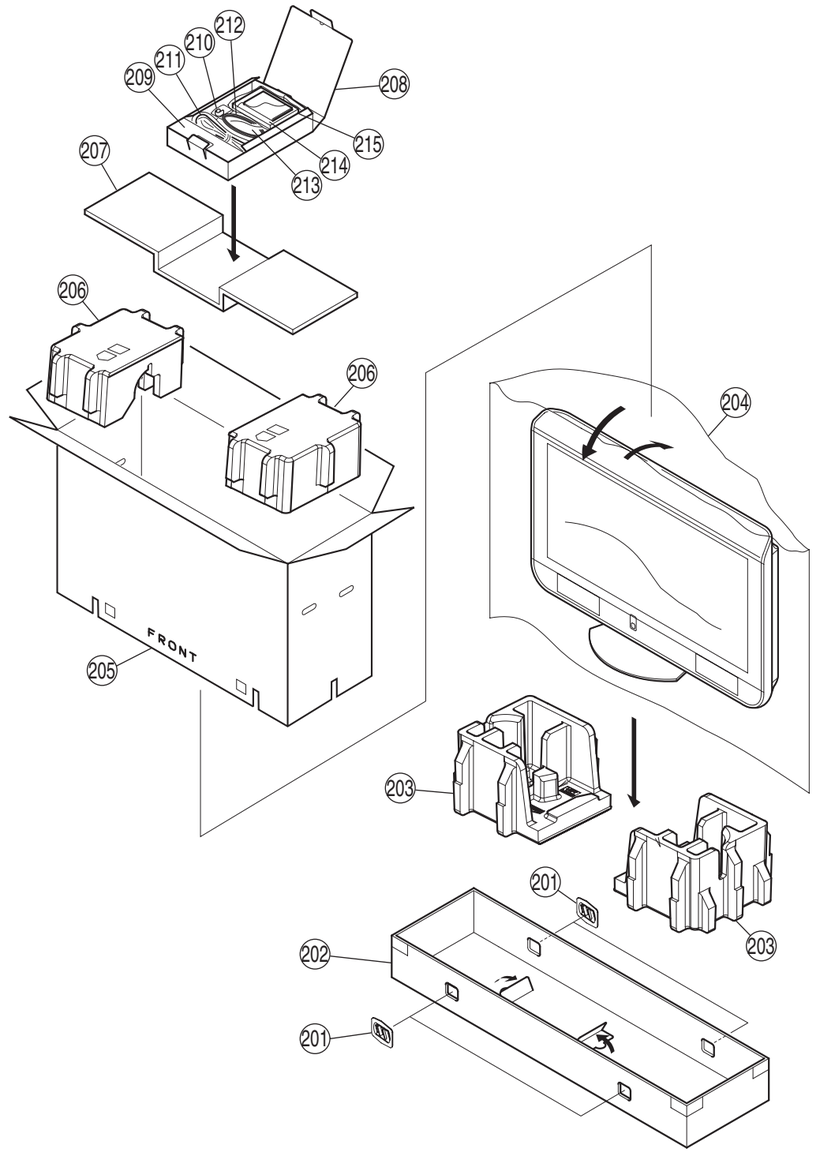


	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	151	X-2021-094-4	BEZEL ASSY	[152-154]
	152	2-021-791-02	BUTTON, POWER	
	153	2-109-058-01	SPRING, COMPRESSION	
	154	2-050-241-01	GUIDE, LED	
*	155	A-1052-778-A	H2 BOARD, MOUNTED	

NOTE: The components identified by shading and ⚠ mark are critical for safety.
Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

4-5. PACKING MATERIAL



	REF. NO.	PART NO.	DESCRIPTION
	201	2-990-242-01	HOLDER (B), PLUG
*	202	2-177-514-01	TRAY
*	203	2-177-518-01	CUSHION, LOWER
*	204	4-102-317-01	BAG, PROTECTION
*	205	2-177-515-01	INDIVIDUAL CARTON
*	206	2-177-517-01	CUSHION, UPPER
*	207	2-177-513-01	BOARD, TOP
*	208	2-177-516-01	BOX, ACCESSORY
	209	1-478-772-12	REMOTE COMMANDER (RM-Y1003)
	210	4-099-720-02	HOOK
⚠	211	1-824-668-21	AC POWER-SUPPLY CORD
	212	1-757-319-42	CABLE, COAXIAL (WITH (F) PLUG)
*	213	X-4040-964-1	ASSY, CLEANING CLOTH (FOR U/C)
	214	2-178-457-11	MANUAL, INSTRUCTION
	214	2-178-457-21	MANUAL, INSTRUCTION
	214	2-178-457-31	MANUAL, INSTRUCTION
	215	2-178-534-11	GUIDE, QUICK START
	215	2-178-534-21	GUIDE, QUICK START
	215	2-178-534-31	GUIDE, QUICK START

SECTION 5: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: ⋈ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

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RESISTORS
- **All resistors are in ohms**
- **F : nonflammable**
- **All variable and adjustable resistors have characteristic curve B, unless otherwise noted.**

When ordering parts by reference number, please include the board name.

G1

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	**A-1068-014-A**	**G1 BOARD, COMPLETE**			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	CAPACITOR				
C6003	1-161-830-00	CERAMIC	0.0047µF	20%	500V
C6004	1-161-830-00	CERAMIC	0.0047µF	20%	500V
C6005	1-161-830-00	CERAMIC	0.0047µF	20%	500V
C6007	1-165-531-11	MYLAR	1µF	10	275V
C6009	1-161-830-00	CERAMIC	0.0047µF	20%	500V
C6011	1-117-227-11	MYLAR	1µF	10%	450V
C6201	1-117-227-11	MYLAR	1µF	10%	450V
C6202	1-100-613-81	CERAMIC	470pF	5%	1KV
C6203	1-100-613-81	CERAMIC	470pF	5%	1KV
C6204	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C6205	1-104-330-91	CERAMIC	470pF	10%	1KV
C6206	1-117-752-11	ELECT(BLOCK)	330µF	20%	450V
C6207	1-104-330-91	CERAMIC	470pF	10%	1KV
C6208	1-117-752-11	ELECT(BLOCK)	330µF	20%	450V
C6210	1-100-756-91	CERAMIC CHIP	0.047µF		50V
C6211	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C6212	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6213	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C6214	1-127-804-91	CERAMIC CHIP	100pF	1%	50V
C6215	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6216	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6218	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C6219	1-107-888-11	ELECT	47µF	20%	25V
C6220	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C6221	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6222	1-107-889-11	ELECT	220µF	20%	25V
C6223	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6224	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6225	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6226	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C6227	1-107-906-11	ELECT	10µF	20%	50V
C6228	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C6229	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C6230	1-163-145-00	CERAMIC CHIP	0.0015µF	5%	50V
C6231	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C6232	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6233	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6234	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6235	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6236	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6237	1-107-905-11	ELECT	4.7µF	20%	50V
C6238	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6239	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6240	1-107-888-11	ELECT	47µF	20%	25V
C6241	1-107-905-11	ELECT	4.7µF	20%	50V
C6242	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6243	1-107-902-11	ELECT	1µF	20%	50V
C6244	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6245	1-107-910-11	ELECT	100µF	20%	50V
C6246	1-117-227-11	MYLAR	1µF	10%	450V
C6247	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V

CONNECTOR

*	CN6001	1-580-843-11	PIN, CONNECTOR (POWER)	
*	CN6002	1-564-506-11	PLUG, CONNECTOR	3P
*	CN6003	1-564-507-11	PLUG, CONNECTOR	4P
*	CN6004	1-779-658-11	PIN, CONNECTOR (PC BOARD)	4P
	CN6005	1-564-505-11	PLUG, CONNECTOR	2P

DIODE

D6001	8-719-304-63	DIODE	RM11C
D6002	8-719-054-89	DIODE	D15XB60

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REF. NO.	PART NO.	DESCRIPTION	VALUES
D6003	8-719-304-63	DIODE	RM11C
D6004	8-719-404-50	DIODE	MA111-TX
D6201	8-719-041-97	DIODE	MA113-(TX)
D6202	8-719-041-97	DIODE	MA113-(TX)
D6203	8-719-083-83	DIODE	UDZS-TE17-15B
D6204	8-719-083-83	DIODE	UDZS-TE17-15B
D6207	6-500-407-01	DIODE	SF20L60U-4015
D6208	8-719-304-63	DIODE	RM11C
D6209	8-719-083-83	DIODE	UDZS-TE17-15B
D6210	8-719-056-84	DIODE	UDZ-TE-17-7.5B
D6211	8-719-404-50	DIODE	MA111-TX
D6212	8-719-404-50	DIODE	MA111-TX
D6213	8-719-071-94	DIODE	HRU0103ATRF
D6214	8-719-056-84	DIODE	UDZ-TE-17-7.5B
D6215	8-719-071-94	DIODE	HRU0103ATRF
D6216	8-719-071-94	DIODE	HRU0103ATRF
D6217	8-719-404-50	DIODE	MA111-TX
D6218	8-719-083-83	DIODE	UDZS-TE17-15B
D6219	8-719-083-83	DIODE	UDZS-TE17-15B
	IC		
IC6201	6-703-132-01	IC	UC3854BN
IC6202	8-759-700-44	IC	NJM2902M
IC6203	8-759-458-79	IC	PQ12RD11
IC6204	8-759-682-42	IC	MM1431ATT
	COIL		
L6001	1-416-489-11	INDUCTOR	143µH
L6201	1-424-932-12	INDUCTOR	60µH
L6202	1-424-932-12	INDUCTOR	60µH
	TRANSISTOR		
Q6201	6-550-372-01	TRANSISTOR	SPA20N60C3E8152
Q6202	6-550-372-01	TRANSISTOR	SPA20N60C3E8152
Q6204	8-729-040-89	TRANSISTOR	2SK1590-T1B
Q6205	8-729-907-00	TRANSISTOR	DTC114EU
Q6206	8-729-820-86	TRANSISTOR	2SB1121-ST
Q6207	8-729-905-35	TRANSISTOR	2SC4081-R
Q6208	8-729-807-17	TRANSISTOR	2SD1621-S
Q6209	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6210	8-729-905-35	TRANSISTOR	2SC4081-R
Q6211	8-729-905-35	TRANSISTOR	2SC4081-R
Q6212	8-729-905-35	TRANSISTOR	2SC4081-R
Q6213	8-729-905-35	TRANSISTOR	2SC4081-R
Q6214	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6215	8-729-907-00	TRANSISTOR	DTC114EU
Q6216	8-729-905-35	TRANSISTOR	2SC4081-R
Q6217	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
	RESISTOR		
R6002	1-202-972-61	FUSIBLE	1 5% 1/4W
R6003	1-216-121-11	RES-CHIP	1M 5% 1/10W
R6004	1-202-962-11	CEMENTED	3.3 5% 10W
R6005	1-217-781-11	FUSIBLE	2.2 5% 5W
R6006	1-202-962-11	CEMENTED	3.3 5% 10W
R6007	1-216-864-11	SHORT CHIP	
R6200	1-249-393-11	CARBON	10 5% 1/4W
R6201	1-243-665-11	METAL	0.05 5% 5W
R6202	1-243-665-11	METAL	0.05 5% 5W
R6203	1-249-393-11	CARBON	10 5% 1/4W
R6204	1-249-397-11	CARBON	22 5% 1/4W
R6206	1-249-397-11	CARBON	22 5% 1/4W
R6207	1-216-833-11	METAL CHIP	10K 5% 1/10W
R6208	1-216-833-11	METAL CHIP	10K 5% 1/10W
R6210	1-215-929-11	METAL OXIDE	100K 5% 3W
R6211	1-215-929-11	METAL OXIDE	100K 5% 3W
R6212	1-215-905-11	METAL OXIDE	10 5% 3W
R6213	1-215-905-11	METAL OXIDE	10 5% 3W
R6214	1-216-857-11	METAL CHIP	1M 5% 1/10W
R6215	1-218-903-11	METAL CHIP	220K 0.50% 1/10W
R6216	1-245-470-21	METAL	220K 1% 1/4W
R6217	1-245-474-21	METAL	330K 1% 1/4W
R6218	1-245-474-21	METAL	330K 1% 1/4W
R6219	1-218-895-11	METAL CHIP	100K 0.50% 1/10W
R6220	1-245-470-21	METAL	220K 1% 1/4W
R6221	1-245-474-21	METAL	330K 1% 1/4W
R6222	1-245-474-21	METAL	330K 1% 1/4W
R6223	1-218-877-11	METAL CHIP	18K 0.50% 1/10W
R6224	1-245-470-21	METAL	220K 1% 1/4W
R6225	1-245-474-21	METAL	330K 1% 1/4W
R6226	1-245-474-21	METAL	330K 1% 1/4W
R6227	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R6228	1-218-846-11	METAL CHIP	910 0.50% 1/10W
R6229	1-216-835-11	METAL CHIP	15K 5% 1/10W
R6230	1-216-857-11	METAL CHIP	1M 5% 1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

G1

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6231	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R6232	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6233	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6234	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6235	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6236	1-249-393-11	CARBON	10	5%	1/4W
R6237	1-249-405-11	CARBON	100	5%	1/4W
R6238	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6239	1-249-393-11	CARBON	10	5%	1/4W
R6240	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6241	1-216-849-11	METAL CHIP	220K	5%	1/10W
R6242	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6243	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6244	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6245	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R6246	1-218-851-11	METAL CHIP	1.5K	0.50%	1/10W
R6247	1-218-869-11	METAL CHIP	8.2K	0.50%	1/10W
R6248	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R6249	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R6250	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R6251	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6252	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6253	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6254	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6255	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6256	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6257	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6258	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6261	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6262	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6263	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6264	1-216-809-11	METAL CHIP	100	5%	1/10W
R6265	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6266	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6267	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6268	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6269	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6270	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6271	1-216-847-11	METAL CHIP	150K	5%	1/10W
R6272	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6273	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R6274	1-216-821-11	METAL CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6275	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6276	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6277	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6278	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R6279	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6280	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R6281	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6282	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6283	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6284	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6285	1-216-797-11	METAL CHIP	10	5%	1/10W
R6286	1-216-849-11	METAL CHIP	220K	5%	1/10W
R6287	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6288	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6289	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6290	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
R6291	1-218-831-11	METAL CHIP	220	0.50%	1/10W
R6292	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W
R6293	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6294	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6295	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6296	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6297	1-249-393-11	CARBON	10	5%	1/4W
R6298	1-216-121-11	RES-CHIP	1M	5%	1/10W

VARIABLE RESISTOR

RV6201	1-225-626-91	RES, VAR, ADJ, CERMET 1K	

RELAY

⚠	RY6001	1-515-999-11	RELAY, POWER

THERMISTOR

TH6201	1-809-789-71	THERMISTOR, POSITIVE	

G2

REF. NO.	PART NO.	DESCRIPTION	VALUES		
G2					
*	**A-1068-016-A**	**G2 BOARD, COMPLETE**			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
*	7-322-065-48	RUBBER, SILICONE RTV (KE-3490)			
	CAPACITOR				
C6301	1-137-639-21	MYLAR	0.47µF	10%	450V
C6302	1-126-967-11	ELECT	47µF	20%	50V
C6304	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6305	1-107-905-11	ELECT	4.7µF	20%	50V
C6306	1-100-831-91	CERAMIC CHIP	0.001µF	2%	50V
C6307	1-126-949-11	ELECT	220µF	20%	35V
C6308	1-107-906-11	ELECT	10µF	20%	50V
C6309	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6310	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6311	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6313	1-107-888-11	ELECT	47µF	20%	25V
C6314	1-107-824-11	CERAMIC	220pF	5%	1KV
C6315	1-100-310-91	FILM	18000pF	3%	800V
C6316	1-107-824-11	CERAMIC	220pF	5%	1KV
C6317	1-107-910-11	ELECT	100µF	20%	50V
C6318	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6401	1-131-970-11	ELECT	1500µF	20%	25V
C6402	1-126-972-11	ELECT	1000µF	20%	50V
C6403	1-104-665-11	ELECT	100µF	20%	25V
C6404	1-107-888-11	ELECT	47µF	20%	25V
C6405	1-128-945-31	ELECT	1000µF	20%	10V
C6406	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6407	1-128-953-31	ELECT	470µF	20%	25V
C6408	1-128-945-31	ELECT	1000µF	20%	10V
C6409	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6410	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6412	1-128-953-31	ELECT	470µF	20%	25V
C6413	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6414	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6415	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6416	1-126-923-91	ELECT	220µF	20%	10V
C6419	1-128-951-31	ELECT	2200µF	20%	16V
C6501	1-117-227-11	MYLAR	1µF	10%	450V
C6504	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6505	1-107-906-11	ELECT	10µF	20%	50V
C6506	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6507	1-107-909-11	ELECT	47µF	20%	50V
C6508	1-107-906-11	ELECT	10µF	20%	50V
C6509	1-100-831-91	CERAMIC CHIP	0.001µF	2%	50V
C6510	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6513	1-107-888-11	ELECT	47µF	20%	25V
C6514	1-107-824-11	CERAMIC	220pF	5%	1KV
C6515	1-107-824-11	CERAMIC	220pF	5%	1KV
C6516	1-100-400-11	FILM	39000pF	3%	1KV
C6517	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6518	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C6521	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6522	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6601	1-165-776-31	ELECT	680µF	20%	100V
C6603	1-107-937-51	ELECT	1000µF	20%	100V
C6604	1-107-937-51	ELECT	1000µF	20%	100V
C6701	1-117-228-71	MYLAR	2.2µF	10%	450V
C6702	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6703	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6704	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6705	1-107-909-11	ELECT	47µF	20%	50V
C6706	1-127-559-11	ELECT	15µF	20%	6.3V
C6707	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6708	1-107-906-11	ELECT	10µF	20%	50V
C6709	1-100-831-91	CERAMIC CHIP	0.001µF	2%	50V
C6710	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6713	1-107-888-11	ELECT	47µF	20%	25V
C6715	1-104-330-91	CERAMIC	470pF	10%	1KV
C6716	1-104-330-91	CERAMIC	470pF	10%	1KV
C6717	1-100-400-11	FILM	39000pF	3%	1KV
C6718	1-100-400-11	FILM	39000pF	3%	1KV
C6719	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C6720	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6801	1-100-402-11	ELECT	1000µF	20%	250V
C6802	1-126-967-11	ELECT	47µF	20%	50V
C6803	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C6804	1-100-215-11	ELECT	1800µF	20%	250V
C6805	1-100-215-11	ELECT	1800µF	20%	250V
C6806	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6809	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C6810	1-102-228-00	CERAMIC	470pF	10%	500V
C6811	1-102-244-00	CERAMIC	220pF	10%	500V
C6812	1-107-965-11	ELECT	100µF	20%	250V
C6813	1-107-905-11	ELECT	4.7µF	20%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C6814	1-137-190-91	FILM	0.22µF	5%	50V
C6815	1-165-726-31	ELECT	56µF	20%	16V
C6816	1-101-821-00	CERAMIC	0.0022µF		500V
C6817	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6818	1-107-964-11	ELECT	47µF	20%	250V
C6819	1-126-963-11	ELECT	4.7µF	20%	50V
C6820	1-137-190-91	FILM	0.22µF	5%	50V
C6821	1-126-947-11	ELECT	47µF	20%	35V
C6822	1-101-821-00	CERAMIC	0.0022µF		500V
C6823	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6824	1-107-933-11	ELECT	100µF	20%	100V
C6825	1-126-963-11	ELECT	4.7µF	20%	50V
C6826	1-137-190-91	FILM	0.22µF	5%	50V
C6827	1-126-947-11	ELECT	47µF	20%	35V
C6829	1-107-364-11	MYLAR	0.01µF	10%	200V
C6830	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6831	1-107-888-11	ELECT	47µF	20%	25V
C6832	1-126-947-11	ELECT	47µF	20%	35V
C6833	1-126-947-11	ELECT	47µF	20%	35V
C6901	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6902	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6903	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C6905	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6906	1-126-947-11	ELECT	47µF	20%	35V
C6907	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6908	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6909	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6911	1-126-947-11	ELECT	47µF	20%	35V
C6912	1-107-889-11	ELECT	220µF	20%	25V
C6914	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6915	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6920	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6921	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6922	1-126-964-11	ELECT	10µF	20%	50V
C6929	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6930	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

CLIP

*	CLP1	4-042-408-02	PIN(45), WIRE	
*	CLP3	4-042-408-02	PIN(45), WIRE	

CONNECTOR

*	CN6101	1-564-506-11	PLUG, CONNECTOR	3P
*	CN6102	1-564-507-11	PLUG, CONNECTOR	4P
*	CN6103	1-779-658-11	PIN, CONNECTOR (PC BOARD)	4P
*	CN6104	1-564-506-11	PLUG, CONNECTOR	3P
*	CN6105	1-564-596-11	PLUG, CONNECTOR	15P
*	CN6106	1-564-507-11	PLUG, CONNECTOR	4P
*	CN6107	1-564-512-11	PLUG, CONNECTOR	9P
*	CN6108	1-564-712-11	PIN, CONNECTOR (SMALL TYPE)	10P
*	CN6109	1-766-175-11	PIN, CONNECTOR (PC BOARD)	5P
*	CN6110	1-580-837-11	PIN, CONNECTOR (PC BOARD)	3P
	CN6111	1-779-092-11	PIN, CONNECTOR (PC BOARD)	10P
*	CN6112	1-691-757-11	PIN, CONNECTOR (PC BOARD)	8P
	CN6113	1-564-505-11	PLUG, CONNECTOR	2P

DIODE

D6101	8-719-979-64	DIODE	UF4005PKG23
D6302	8-719-083-83	DIODE	UDZS-TE17-15B
D6303	8-719-083-83	DIODE	UDZS-TE17-15B
D6304	8-719-979-64	DIODE	UF4005PKG23
D6305	8-719-947-61	DIODE	MTZJ-T-72-15B
D6306	8-719-947-61	DIODE	MTZJ-T-72-15B
D6307	8-719-063-74	DIODE	D1NL20U-TR2
D6308	8-719-404-50	DIODE	MA111-TX
D6309	8-719-063-74	DIODE	D1NL20U-TR2
D6310	8-719-063-74	DIODE	D1NL20U-TR2
D6311	8-719-041-97	DIODE	MA113-(TX)
D6401	8-719-404-50	DIODE	MA111-TX
D6402	8-719-050-21	DIODE	FCQ20A04
D6403	8-719-083-83	DIODE	UDZS-TE17-15B
D6404	8-719-404-50	DIODE	MA111-TX
D6405	8-719-027-20	DIODE	D3S4M-F
D6406	8-719-083-67	DIODE	UDZSTE-1720B
D6408	8-719-510-41	DIODE	D10SC9M
D6409	8-719-050-18	DIODE	D4SBL20U
D6410	8-719-404-50	DIODE	MA111-TX
D6411	8-719-160-29	DIODE	RD6.2FB2
D6412	8-719-027-20	DIODE	D3S4M-F
D6413	8-719-160-20	DIODE	RD4.7FB2
D6414	8-719-069-55	DIODE	UDZSTE-175.6B
D6415	8-719-404-50	DIODE	MA111-TX
D6501	8-719-404-50	DIODE	MA111-TX
D6502	8-719-083-83	DIODE	UDZS-TE17-15B
D6503	8-719-083-83	DIODE	UDZS-TE17-15B
D6504	8-719-083-83	DIODE	UDZS-TE17-15B

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REF. NO.	PART NO.	DESCRIPTION	VALUES
D6505	8-719-979-64	DIODE	UF4005PKG23
D6506	8-719-947-61	DIODE	MTZJ-T-72-15B
D6507	8-719-947-61	DIODE	MTZJ-T-72-15B
D6601	8-719-054-51	DIODE	D8LC20U-4012
D6701	8-719-404-50	DIODE	MA111-TX
D6702	8-719-083-83	DIODE	UDZS-TE17-15B
D6704	8-719-083-83	DIODE	UDZS-TE17-15B
D6705	8-719-083-83	DIODE	UDZS-TE17-15B
D6706	8-719-979-64	DIODE	UF4005PKG23
D6707	8-719-041-97	DIODE	MA113-(TX)
D6708	8-719-041-97	DIODE	MA113-(TX)
D6709	8-719-947-61	DIODE	MTZJ-T-72-15B
D6710	8-719-947-61	DIODE	MTZJ-T-72-15B
D6711	8-719-947-61	DIODE	MTZJ-T-72-15B
D6712	8-719-947-61	DIODE	MTZJ-T-72-15B
D6801	6-500-439-01	DIODE	D8LD40-F1
D6802	6-500-439-01	DIODE	D8LD40-F1
D6804	8-719-404-50	DIODE	MA111-TX
D6806	8-719-979-64	DIODE	UF4005PKG23
D6807	8-719-059-23	DIODE	P6KE200AG23
D6808	8-719-979-64	DIODE	UF4005PKG23
D6809	8-719-063-74	DIODE	D1NL20U-TR2
D6810	8-719-083-83	DIODE	UDZS-TE17-15B
D6812	8-719-063-74	DIODE	D1NL20U-TR2
D6813	8-719-404-50	DIODE	MA111-TX
D6814	8-719-979-64	DIODE	UF4005PKG23
D6815	8-719-059-23	DIODE	P6KE200AG23
D6816	8-719-979-64	DIODE	UF4005PKG23
D6817	8-719-063-74	DIODE	D1NL20U-TR2
D6818	8-719-083-52	DIODE	UDZS-TE17-16B
D6820	8-719-063-74	DIODE	D1NL20U-TR2
D6821	8-719-404-50	DIODE	MA111-TX
D6822	8-719-979-64	DIODE	UF4005PKG23
D6823	8-719-063-74	DIODE	D1NL20U-TR2
D6824	8-719-059-23	DIODE	P6KE200AG23
D6825	8-719-979-64	DIODE	UF4005PKG23
D6826	8-719-063-74	DIODE	D1NL20U-TR2
D6827	8-719-083-83	DIODE	UDZS-TE17-15B
D6829	8-719-404-50	DIODE	MA111-TX
D6831	8-719-404-50	DIODE	MA111-TX
D6901	8-719-083-83	DIODE	UDZS-TE17-15B
D6902	8-719-404-50	DIODE	MA111-TX
D6905	8-719-404-50	DIODE	MA111-TX
D6906	8-719-404-50	DIODE	MA111-TX
D6908	8-719-404-50	DIODE	MA111-TX
D6909	8-719-404-50	DIODE	MA111-TX
D6910	8-719-404-50	DIODE	MA111-TX
D6912	8-719-056-84	DIODE	UDZ-TE-17-7.5B

IC

	REF. NO.	PART NO.	DESCRIPTION	VALUES
	IC6301	6-705-810-01	IC	MCZ3001DB
	IC6401	8-759-982-15	IC	RC7815FA
	IC6402	8-759-640-19	IC	PQ1CG2032FZ
	IC6403	8-759-640-19	IC	PQ1CG2032FZ
	IC6404	8-759-682-42	IC	MM1431ATT
	IC6501	6-705-810-01	IC	MCZ3001DB
	IC6701	6-705-810-01	IC	MCZ3001DB
	IC6801	8-759-470-64	IC	TOP223Y-BB
	IC6802	8-759-682-42	IC	MM1431ATT
	IC6803	8-759-470-64	IC	TOP223Y-BB
	IC6804	8-759-682-42	IC	MM1431ATT
	IC6805	8-759-470-64	IC	TOP223Y-BB
	IC6806	8-759-682-42	IC	MM1431ATT
	IC6902	6-704-967-01	IC	PQ20RX11J00H
	IC6903	8-759-682-42	IC	MM1431ATT
*	IC6904	8-759-575-27	IC	BA10339F-E2
	IC6905	8-759-682-42	IC	MM1431ATT
	IC6906	8-759-682-42	IC	MM1431ATT

COIL

	REF. NO.	PART NO.	DESCRIPTION	VALUES
	L6301	1-406-667-11	INDUCTOR	220µH
	L6401	1-412-519-11	INDUCTOR	3.3µH
	L6402	1-412-519-11	INDUCTOR	3.3µH
	L6403	1-412-525-31	INDUCTOR	10µH
	L6404	1-419-714-21	INDUCTOR	100µH
	L6405	1-406-976-11	INDUCTOR	68µH
	L6406	1-412-525-31	INDUCTOR	10µH
	L6501	1-406-665-11	INDUCTOR	100µH
	L6701	1-406-977-21	INDUCTOR	100µH

PHOTO COUPLER

	REF. NO.	PART NO.	DESCRIPTION	VALUES
⚠	PH6402	8-749-016-81	PHOTO COUPLER	PC123Y22
⚠	PH6601	8-749-016-81	PHOTO COUPLER	PC123Y22
⚠	PH6602	8-749-016-81	PHOTO COUPLER	PC123Y22
⚠	PH6801	8-749-016-81	PHOTO COUPLER	PC123Y22
⚠	PH6802	8-749-016-81	PHOTO COUPLER	PC123Y22

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NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF. NO.	PART NO.	DESCRIPTION	VALUES
PH6803	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF
PH6804	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF
PH6805	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF
⚠ PH6901	8-749-016-81	PHOTO COUPLER	PC123Y22
⚠ PH6902	8-749-016-81	PHOTO COUPLER	PC123Y22
	IC LINK		
PS1	1-576-390-91	IC LINK	2.5A 50V
PS2	1-576-390-91	IC LINK	2.5A 50V
	TRANSISTOR		
Q6301	8-729-053-10	TRANSISTOR	2SK2662(LBS2SONY)
Q6302	8-729-053-10	TRANSISTOR	2SK2662(LBS2SONY)
Q6401	8-729-907-00	TRANSISTOR	DTC114EU
Q6402	8-729-907-00	TRANSISTOR	DTC114EU
Q6403	8-729-907-00	TRANSISTOR	DTC114EU
Q6404	6-550-548-01	TRANSISTOR	DTA114EUAFT106
Q6501	6-550-526-11	TRANSISTOR	2SK2842(LBS2SONY)
Q6502	6-550-526-11	TRANSISTOR	2SK2842(LBS2SONY)
Q6503	8-729-907-00	TRANSISTOR	DTC114EU
Q6504	8-729-907-00	TRANSISTOR	DTC114EU
Q6701	6-550-372-01	TRANSISTOR	SPA20N60C3E8152
Q6702	6-550-372-01	TRANSISTOR	SPA20N60C3E8152
Q6703	8-729-040-89	TRANSISTOR	2SK1590-T1B
Q6704	8-729-907-00	TRANSISTOR	DTC114EU
Q6706	8-729-820-86	TRANSISTOR	2SB1121-ST
Q6707	8-729-820-86	TRANSISTOR	2SB1121-ST
Q6801	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6802	8-729-905-35	TRANSISTOR	2SC4081-R
Q6901	8-729-905-35	TRANSISTOR	2SC4081-R
Q6902	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6903	8-729-905-35	TRANSISTOR	2SC4081-R
Q6904	6-550-548-01	TRANSISTOR	DTA114EUAFT106
Q6905	8-729-905-35	TRANSISTOR	2SC4081-R
Q6906	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6907	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6908	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6909	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
Q6914	8-729-907-00	TRANSISTOR	DTC114EU
Q6915	8-729-907-00	TRANSISTOR	DTC114EU
Q6916	8-729-907-00	TRANSISTOR	DTC114EU

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R6302	1-249-417-11	CARBON	1K	5%	1/4W
R6303	1-220-926-81	FUSIBLE	0.47	10%	1/2W
R6304	1-218-865-11	METAL CHIP	5.6K	0.50%	1/10W
R6305	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R6306	1-249-393-11	CARBON	10	5%	1/4W
R6308	1-245-478-21	METAL	470K	1%	1/4W
R6309	1-245-478-21	METAL	470K	1%	1/4W
R6311	1-218-874-11	METAL CHIP	13K	0.50%	1/10W
R6312	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R6313	1-249-393-11	CARBON	10	5%	1/4W
R6314	1-249-393-11	CARBON	10	5%	1/4W
R6315	1-211-977-11	METAL CHIP	22	0.50%	1/10W
R6316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6317	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6318	1-245-315-71	METAL OXIDE	0.1	5%	2W
R6319	1-249-389-11	CARBON	4.7	5%	1/4W
R6320	1-216-121-11	RES-CHIP	1M	5%	1/10W
R6401	1-218-839-11	METAL CHIP	470	0.50%	1/10W
R6402	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6403	1-218-857-11	METAL CHIP	2.7K	0.50%	1/10W
R6404	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6405	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R6406	1-218-829-11	METAL CHIP	180	0.50%	1/10W
R6407	1-218-851-11	METAL CHIP	1.5K	0.50%	1/10W
R6408	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R6409	1-216-809-11	METAL CHIP	100	5%	1/10W
R6410	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6418	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6419	1-216-864-11	SHORT CHIP			
R6420	1-218-883-11	METAL CHIP	33K	0.50%	1/10W
R6421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6422	1-218-878-11	METAL CHIP	20K	0.50%	1/10W
R6423	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6502	1-249-393-11	CARBON	10	5%	1/4W
R6503	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6505	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
R6506	1-245-478-21	METAL	470K	1%	1/4W
R6507	1-245-478-21	METAL	470K	1%	1/4W
R6509	1-218-823-11	METAL CHIP	100	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6510	1-218-875-11	METAL CHIP	15K	0.50%	1/10W
R6512	1-211-983-11	METAL CHIP	39	0.50%	1/10W
R6513	1-249-393-11	CARBON	10	5%	1/4W
R6514	1-249-393-11	CARBON	10	5%	1/4W
R6515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6516	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6517	1-243-660-71	METAL	0.05	5%	2W
R6518	1-216-817-11	METAL CHIP	470	5%	1/10W
R6519	1-245-478-21	METAL	470K	1%	1/4W
R6520	1-245-478-21	METAL	470K	1%	1/4W
R6521	1-245-478-21	METAL	470K	1%	1/4W
R6522	1-245-478-21	METAL	470K	1%	1/4W
R6523	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6524	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6525	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6601	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6603	1-217-156-00	METAL	0.22	10%	5W
R6604	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6605	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R6701	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6702	1-249-393-11	CARBON	10	5%	1/4W
R6703	1-242-949-11	FUSIBLE	0.1	10%	1W
R6704	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6705	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R6706	1-218-862-11	METAL CHIP	4.3K	0.50%	1/10W
R6707	1-216-805-11	METAL CHIP	47	5%	1/10W
R6708	1-245-474-21	METAL	330K	1%	1/4W
R6709	1-245-474-21	METAL	330K	1%	1/4W
R6710	1-218-873-11	METAL CHIP	12K	0.50%	1/10W
R6714	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R6715	1-249-393-11	CARBON	10	5%	1/4W
R6716	1-249-393-11	CARBON	10	5%	1/4W
R6717	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6718	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6719	1-216-121-11	RES-CHIP	1M	5%	1/10W
R6720	1-243-660-71	METAL	0.05	5%	2W
R6721	1-216-817-11	METAL CHIP	470	5%	1/10W
R6724	1-245-474-21	METAL	330K	1%	1/4W
R6725	1-245-478-21	METAL	470K	1%	1/4W
R6726	1-245-478-21	METAL	470K	1%	1/4W
R6727	1-245-478-21	METAL	470K	1%	1/4W
R6728	1-245-478-21	METAL	470K	1%	1/4W
R6801	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6802	1-216-821-11	METAL CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6803	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6804	1-217-157-00	METAL	0.33	10%	5W
R6805	1-249-393-11	CARBON	10	5%	1/4W
R6806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6808	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6809	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6810	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6812	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6813	1-216-864-11	SHORT CHIP			
R6814	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6815	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R6816	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R6817	1-208-841-11	METAL CHIP	300K	0.50%	1/10W
R6818	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6819	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R6820	1-208-836-11	METAL CHIP	180K	0.50%	1/10W
R6821	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6822	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6823	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6824	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6825	1-217-157-00	METAL	0.33	10%	5W
R6826	1-249-389-11	CARBON	4.7	5%	1/4W
R6827	1-249-389-11	CARBON	4.7	5%	1/4W
R6828	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6829	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6830	1-218-761-11	METAL CHIP	240K	0.50%	1/10W
R6831	1-208-840-11	METAL CHIP	270K	0.50%	1/10W
R6832	1-216-795-11	METAL CHIP	6.8	5%	1/10W
R6833	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6834	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R6836	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6837	1-249-389-11	CARBON	4.7	5%	1/4W
R6838	1-249-389-11	CARBON	4.7	5%	1/4W
R6839	1-249-389-11	CARBON	4.7	5%	1/4W
R6840	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6841	1-216-795-11	METAL CHIP	6.8	5%	1/10W
R6842	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6843	1-208-840-11	METAL CHIP	270K	0.50%	1/10W
R6844	1-208-840-11	METAL CHIP	270K	0.50%	1/10W
R6845	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R6846	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6848	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6849	1-249-389-11	CARBON	4.7	5%	1/4W
R6850	1-249-389-11	CARBON	4.7	5%	1/4W

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G2

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6851	1-249-389-11	CARBON	4.7	5%	1/4W
R6852	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6853	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6855	1-208-836-11	METAL CHIP	180K	0.50%	1/10W
R6856	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R6857	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6858	1-216-795-11	METAL CHIP	6.8	5%	1/10W
R6859	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6860	1-249-389-11	CARBON	4.7	5%	1/4W
R6861	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6862	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6901	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6902	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6903	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6904	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6905	1-216-817-11	METAL CHIP	470	5%	1/10W
R6906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6907	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6908	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6909	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R6910	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R6911	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R6912	1-216-864-11	SHORT CHIP			
R6913	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R6914	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6915	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6916	1-216-834-11	METAL CHIP	12K	5%	1/10W
R6917	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R6918	1-208-828-11	METAL CHIP	82K	0.50%	1/10W
R6919	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6920	1-208-828-11	METAL CHIP	82K	0.50%	1/10W
R6921	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R6922	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
R6923	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6924	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6925	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6926	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6927	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6928	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6929	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6930	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6931	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6934	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
R6936	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6938	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6941	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6942	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6945	1-218-862-11	METAL CHIP	4.3K	0.50%	1/10W
R6946	1-218-875-11	METAL CHIP	15K	0.50%	1/10W
R6947	1-218-870-11	METAL CHIP	9.1K	0.50%	1/10W
R6948	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6949	1-216-864-11	SHORT CHIP			
R6950	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6951	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6957	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R6961	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6962	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R6965	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R6967	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6968	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6969	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6970	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6988	1-216-833-11	METAL CHIP	10K	5%	1/10W

VARIABLE RESISTOR

RV6504	1-241-768-11	RES, ADJ, CERMET 220K
RV6825	1-241-768-11	RES, ADJ, CERMET 220K
RV6835	1-241-769-21	RES, ADJ, CERMET 470K
RV6847	1-241-769-21	RES, ADJ, CERMET 470K
RV6854	1-241-768-11	RES, ADJ, CERMET 220K

TRANSFORMER

⚠	T6401	1-443-377-11	TRANSFORMER, CONVERTER (PIT)
⚠	T6501	1-443-376-11	TRANSFORMER, CONVERTER (PIT)
⚠	T6701	1-443-375-11	TRANSFORMER, CONVERTER (PIT)
⚠	T6702	1-443-375-11	TRANSFORMER, CONVERTER (PIT)
	T6801	1-443-373-11	DC-DC CONVERTER TRANSFORMER
	T6802	1-443-373-11	DC-DC CONVERTER TRANSFORMER
	T6803	1-443-374-11	DC-DC CONVERTER TRANSFORMER

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F

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
F						
*		A-1052-771-A	F BOARD, MOUNTED			
		CAPACITOR				
	C601	1-161-830-00	CERAMIC	0.0047µF	20%	500V
	C602	1-161-830-00	CERAMIC	0.0047µF	20%	500V
	C603	1-161-830-00	CERAMIC	0.0047µF	20%	500V
	C604	1-161-830-00	CERAMIC	0.0047µF	20%	500V
	C605	1-107-680-91	ELECT	22µF	20%	450V
	C606	1-126-963-11	ELECT	4.7µF	20%	50V
	C607	1-101-821-00	CERAMIC	0.0022µF		500V
	C608	1-107-974-11	CERAMIC	47pF	5%	2KV
	C609	1-165-531-11	MYLAR	1µF	10	275V
	C610	1-126-961-11	ELECT	2.2µF	20%	50V
	C611	1-165-531-11	MYLAR	1µF	10	275V
	C612	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
	C614	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
⚠	C617	1-119-886-51	CERAMIC	470pF	10%	250V
	C618	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
	C619	1-128-949-31	ELECT	470µF	20%	16V
	C620	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C621	1-104-658-91	ELECT	100µF	20%	10V
	C622	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C623	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
	C624	1-126-967-11	ELECT	47µF	20%	50V
	C625	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C626	1-165-528-11	MYLAR	0.1µF	10	275V
	C627	1-100-756-91	CERAMIC CHIP	0.047µF		50V
	C628	1-107-974-11	CERAMIC	47pF	5%	2KV
⚠	C629	1-119-886-51	CERAMIC	470pF	10%	250V
		CONNECTOR				
*⚠	CN601	1-580-843-11	PIN, CONNECTOR (POWER)			
	CN602	1-564-505-11	PLUG, CONNECTOR	2P		
*	CN603	1-580-843-11	PIN, CONNECTOR (POWER)			
*	CN604	1-564-705-11	PIN, CONNECTOR (SMALL TYPE)	3P		
	CN605	1-695-915-11	TAB (CONTACT)			
	CN606	1-695-915-11	TAB (CONTACT)			

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
		DIODE				
	D601	8-719-051-93	DIODE	DF06M-6031		
	D602	8-719-948-45	DIODE	ERA22-08		
	D603	8-719-063-74	DIODE	D1NL20U-TR2		
	D604	8-719-028-45	DIODE	D2L20U		
	D605	8-719-041-97	DIODE	MA113-(TX)		
	D607	8-719-069-55	DIODE	UDZSTE-175.6B		
	D608	8-719-063-74	DIODE	D1NL20U-TR2		
	D609	8-719-063-74	DIODE	D1NL20U-TR2		
	D611	8-719-983-92	DIODE	MTZJ-T-72-36B		
		FUSE				
⚠	F601	1-576-764-11	FUSE	10A	250V	
		FUSE HOLDER				
	FH601	1-576-766-11	FUSE HOLDER	14A	250V	
	FH602	1-576-766-11	FUSE HOLDER	14A	250V	
		IC				
	IC601	6-600-279-01	IC	STR-A6169		
	IC602	8-759-682-42	IC	MM1431ATT		
		COIL				
	L602	1-412-545-11	INDUCTOR	470µH		
		PHOTO COUPLER				
⚠	PH601	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF		
⚠	PH602	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF		
		TRANSISTOR				
	Q601	8-729-023-22	TRANSISTOR	2SD2114K		
	Q602	8-729-907-00	TRANSISTOR	DTC114EU		
	Q603	8-729-820-86	TRANSISTOR	2SB1121-ST		
		RESISTOR				
	R601	1-218-642-11	METAL OXIDE	100K	5%	1W
	R602	1-219-759-11	METAL	1M	5%	1/2W
	R603	1-216-864-11	SHORT CHIP			

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F UPU

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R604	1-249-407-11	CARBON	150	5%	1/4W
	R606	1-216-839-11	METAL CHIP	33K	5%	1/10W
	R607	1-216-817-11	METAL CHIP	470	5%	1/10W
	R608	1-218-864-11	METAL CHIP	5.1K	0.50%	1/10W
	R609	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W
	R610	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R611	1-216-077-91	RES-CHIP	15K	5%	1/10W
	R612	1-216-353-00	METAL OXIDE	2.2	5%	1W
	R615	1-249-377-11	CARBON	0.47	5%	1/4W
	R616	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R617	1-247-289-00	METAL	8.2M	5%	1W
	R618	1-249-393-11	CARBON	10	5%	1/4W
	R619	1-216-835-11	METAL CHIP	15K	5%	1/10W
	R620	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R621	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		RELAY				
⚠	RY601	1-755-266-11	RELAY, AC POWER			
		TRANSFORMER				
⚠	T601	1-456-562-11	LINE FILTER COIL			
⚠	T602	1-456-562-11	LINE FILTER COIL			
⚠	T603	1-443-313-11	TRANSFORMER, CONVERTER (SBT)			
⚠	T604	1-409-586-11	COIL, LINE FILTER			
		THERMISTOR				
	TH601	1-803-586-11	THERMISTOR, NTC			
		VARISTOR				
	VDR601	1-803-830-31	VARISTOR	(ERZV14D621)		
	VDR602	1-803-830-31	VARISTOR	(ERZV14D621)		
	VDR603	1-810-977-21	VARISTOR			

UPU

*		**A-1052-774-A**	**UPU BOARD, MOUNTED**			
		CAPACITOR				
	C9300	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9301	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9302	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9303	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9304	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9305	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9306	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9307	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9310	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
	C9311	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9312	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
	C9313	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
	C9314	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9315	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
	C9316	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9317	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
	C9600	1-165-112-11	CERAMIC CHIP	0.33µF		16V
	C9601	1-165-112-11	CERAMIC CHIP	0.33µF		16V
	C9602	1-164-346-11	CERAMIC CHIP	1µF		16V
	C9603	1-164-346-11	CERAMIC CHIP	1µF		16V
	C9604	1-135-346-21	ELECT CHIP	39µF	20%	16V
	C9605	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9606	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9607	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9608	1-164-360-11	CERAMIC CHIP	0.1µF		16V
	C9609	1-164-360-11	CERAMIC CHIP	0.1µF		16V
	C9610	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
	C9611	1-165-875-11	CERAMIC CHIP	10µF	10%	10V
	C9612	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C9613	1-165-875-11	CERAMIC CHIP	10µF	10%	10V
	C9614	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9616	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
	C9800	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
	C9801	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9802	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9803	1-126-394-11	ELECT CHIP	10µF	20%	16V
	C9804	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9805	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9806	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9807	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9808	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9809	1-128-416-11	ELECT CHIP	100µF	20%	16V
	C9810	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9811	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
	C9812	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
	C9813	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
	C9814	1-127-692-11	CERAMIC CHIP	10µF	10%	16V

UPU

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C9815	1-126-394-11	ELECT CHIP	10µF	20%	16V
	C9816	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9817	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
	C9818	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
	C9819	1-117-681-11	ELECT CHIP	100µF	20%	16V
	C9820	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C9821	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9822	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C9823	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
	C9824	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
	C9825	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
	C9826	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C9827	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9829	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C9831	1-126-394-11	ELECT CHIP	10µF	20%	16V
	C9832	1-164-360-11	CERAMIC CHIP	0.1µF		16V
	C9837	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V

CONNECTOR

	CN9300	1-764-099-11	PIN, CONNECTOR (PC BOARD)	14P
*	CN9301	1-695-210-21	PIN, CONNECTOR (PC BOARD)	15P
	CN9302	1-794-538-21	PIN, CONNECTOR (FOR PWB)	40P
*	CN9303	1-794-959-21	PIN, CONNECTOR (PWB, PRINT)	20P
*	CN9304	1-695-223-21	PIN, CONNECTOR (SMD)	10P
	CN9305	1-779-936-21	CONNECTOR, FFC/FPC	18P

DIODE

D9300	8-719-977-28	DIODE	DTZ10B
D9301	8-719-977-28	DIODE	DTZ10B
D9302	8-719-977-28	DIODE	DTZ10B
D9303	8-719-977-28	DIODE	DTZ10B
D9304	8-719-977-28	DIODE	DTZ10B
D9305	8-719-977-28	DIODE	DTZ10B
D9306	8-719-977-28	DIODE	DTZ10B
D9307	8-719-977-28	DIODE	DTZ10B
D9308	8-719-977-28	DIODE	DTZ10B
D9309	8-719-977-28	DIODE	DTZ10B
D9310	8-719-977-28	DIODE	DTZ10B
D9311	8-719-977-28	DIODE	DTZ10B
D9312	8-719-977-28	DIODE	DTZ10B
D9313	8-719-977-28	DIODE	DTZ10B
D9314	8-719-977-28	DIODE	DTZ10B
D9315	8-719-977-28	DIODE	DTZ10B

REF. NO.	PART NO.	DESCRIPTION	VALUES

FERRITE BEAD

FB9800	1-414-445-11	FERRITE	0µH
FB9801	1-414-445-11	FERRITE	0µH

IC

IC9600	8-759-836-72	IC	NJM2521V(TE2)
IC9601	8-759-836-72	IC	NJM2521V(TE2)
IC9602	8-752-087-76	IC	CXA2089Q-T6
IC9800	8-752-108-35	IC	CXA2171AQ
IC9801	8-759-548-56	IC	M52055FP
IC9802	8-759-660-21	IC	SN74HCT02APWR

JACK

J9300	1-565-931-11	TERMINAL BLOCK, S	3P
J9301	1-774-358-11	JACK BLOCK, PIN	
J9302	1-565-838-11	JACK BLOCK, PIN	2P
J9303	1-565-931-11	TERMINAL BLOCK, S	3P

COIL

L9600	1-469-526-91	INDUCTOR	22µH
L9800	1-469-525-91	INDUCTOR	10µH
L9801	1-469-525-91	INDUCTOR	10µH
L9802	1-469-525-91	INDUCTOR	10µH

TRANSISTOR

Q9600	6-550-586-01	TRANSISTOR	2PA1576R-115
Q9601	6-550-586-01	TRANSISTOR	2PA1576R-115
Q9800	8-729-122-63	TRANSISTOR	2SA1226-E4
Q9801	8-729-122-63	TRANSISTOR	2SA1226-E4
Q9802	8-729-122-63	TRANSISTOR	2SA1226-E4
Q9803	6-550-585-01	TRANSISTOR	2PC4081R-115
Q9804	6-550-585-01	TRANSISTOR	2PC4081R-115
Q9805	8-729-117-73	TRANSISTOR	2SC4178-F14
Q9806	8-729-117-73	TRANSISTOR	2SC4178-F14
Q9807	8-729-117-73	TRANSISTOR	2SC4178-F14
Q9808	8-729-122-63	TRANSISTOR	2SA1226-E4
Q9809	6-550-586-01	TRANSISTOR	2PA1576R-115
Q9810	8-729-122-63	TRANSISTOR	2SA1226-E4
Q9811	8-729-122-63	TRANSISTOR	2SA1226-E4
Q9814	8-729-025-28	TRANSISTOR	2SK1828
Q9815	8-729-025-28	TRANSISTOR	2SK1828

UPU

RESISTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9300	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9301	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9302	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9303	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9304	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9305	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9306	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9307	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9308	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9309	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9310	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9311	1-216-813-11	METAL CHIP	220	5%	1/10W
R9312	1-216-813-11	METAL CHIP	220	5%	1/10W
R9313	1-216-813-11	METAL CHIP	220	5%	1/10W
R9314	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R9315	1-216-813-11	METAL CHIP	220	5%	1/10W
R9316	1-216-813-11	METAL CHIP	220	5%	1/10W
R9317	1-216-813-11	METAL CHIP	220	5%	1/10W
R9318	1-216-813-11	METAL CHIP	220	5%	1/10W
R9322	1-216-813-11	METAL CHIP	220	5%	1/10W
R9323	1-216-813-11	METAL CHIP	220	5%	1/10W
R9324	1-216-813-11	METAL CHIP	220	5%	1/10W
R9325	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R9326	1-216-813-11	METAL CHIP	220	5%	1/10W
R9327	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9328	1-216-813-11	METAL CHIP	220	5%	1/10W
R9329	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9330	1-216-813-11	METAL CHIP	220	5%	1/10W
R9331	1-216-813-11	METAL CHIP	220	5%	1/10W
R9332	1-216-813-11	METAL CHIP	220	5%	1/10W
R9333	1-216-813-11	METAL CHIP	220	5%	1/10W
R9337	1-216-813-11	METAL CHIP	220	5%	1/10W
R9338	1-216-813-11	METAL CHIP	220	5%	1/10W
R9339	1-216-813-11	METAL CHIP	220	5%	1/10W
R9340	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9341	1-216-813-11	METAL CHIP	220	5%	1/10W
R9342	1-216-813-11	METAL CHIP	220	5%	1/10W
R9343	1-216-813-11	METAL CHIP	220	5%	1/10W
R9344	1-216-813-11	METAL CHIP	220	5%	1/10W
R9345	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9348	1-216-813-11	METAL CHIP	220	5%	1/10W
R9349	1-216-813-11	METAL CHIP	220	5%	1/10W
R9350	1-216-813-11	METAL CHIP	220	5%	1/10W
R9351	1-216-813-11	METAL CHIP	220	5%	1/10W
R9352	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9353	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9354	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9355	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9356	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9357	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9358	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9359	1-216-809-11	METAL CHIP	100	5%	1/10W
R9360	1-216-809-11	METAL CHIP	100	5%	1/10W
R9361	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9362	1-216-809-11	METAL CHIP	100	5%	1/10W
R9363	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9364	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9365	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9366	1-216-809-11	METAL CHIP	100	5%	1/10W
R9367	1-216-809-11	METAL CHIP	100	5%	1/10W
R9368	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9369	1-216-809-11	METAL CHIP	100	5%	1/10W
R9370	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9371	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9372	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9373	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9374	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9375	1-216-864-11	SHORT CHIP			
R9376	1-216-864-11	SHORT CHIP			
R9377	1-216-864-11	SHORT CHIP			
R9378	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9379	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9381	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9382	1-216-809-11	METAL CHIP	100	5%	1/10W
R9383	1-216-864-11	SHORT CHIP			
R9387	1-216-809-11	METAL CHIP	100	5%	1/10W
R9391	1-216-864-11	SHORT CHIP			
R9393	1-216-809-11	METAL CHIP	100	5%	1/10W
R9397	1-216-864-11	SHORT CHIP			
R9398	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9400	1-216-864-11	SHORT CHIP			
R9401	1-216-834-11	METAL CHIP	12K	5%	1/10W
R9403	1-216-864-11	SHORT CHIP			
R9404	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R9406	1-216-295-91	SHORT CHIP			
R9407	1-216-295-91	SHORT CHIP			

UPU

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9600	1-216-809-11	METAL CHIP	100	5%	1/10W
R9601	1-216-841-11	METAL CHIP	47K	5%	1/10W
R9602	1-216-809-11	METAL CHIP	100	5%	1/10W
R9603	1-216-809-11	METAL CHIP	100	5%	1/10W
R9604	1-216-841-11	METAL CHIP	47K	5%	1/10W
R9607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9608	1-211-981-11	METAL CHIP	33	0.50%	1/10W
R9609	1-218-845-11	METAL CHIP	820	0.50%	1/10W
R9610	1-218-674-11	METAL CHIP	180	0.50%	1/10W
R9611	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R9612	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R9613	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9614	1-216-809-11	METAL CHIP	100	5%	1/10W
R9615	1-216-809-11	METAL CHIP	100	5%	1/10W
R9616	1-216-809-11	METAL CHIP	100	5%	1/10W
R9617	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9618	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9800	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R9801	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R9802	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R9803	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R9804	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R9805	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R9806	1-216-806-11	METAL CHIP	56	5%	1/10W
R9807	1-216-806-11	METAL CHIP	56	5%	1/10W
R9808	1-216-806-11	METAL CHIP	56	5%	1/10W
R9809	1-218-674-11	METAL CHIP	180	0.50%	1/10W
R9810	1-218-690-11	METAL CHIP	820	0.50%	1/10W
R9811	1-216-805-11	METAL CHIP	47	5%	1/10W
R9812	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9813	1-216-805-11	METAL CHIP	47	5%	1/10W
R9814	1-216-809-11	METAL CHIP	100	5%	1/10W
R9815	1-216-809-11	METAL CHIP	100	5%	1/10W
R9816	1-216-809-11	METAL CHIP	100	5%	1/10W
R9817	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9818	1-216-809-11	METAL CHIP	100	5%	1/10W
R9819	1-216-809-11	METAL CHIP	100	5%	1/10W
R9820	1-216-809-11	METAL CHIP	100	5%	1/10W
R9821	1-216-809-11	METAL CHIP	100	5%	1/10W
R9822	1-216-805-11	METAL CHIP	47	5%	1/10W
R9823	1-216-809-11	METAL CHIP	100	5%	1/10W
R9824	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9825	1-216-809-11	METAL CHIP	100	5%	1/10W
R9826	1-216-809-11	METAL CHIP	100	5%	1/10W
R9827	1-216-805-11	METAL CHIP	47	5%	1/10W
R9829	1-216-864-11	SHORT CHIP			
R9830	1-216-805-11	METAL CHIP	47	5%	1/10W
R9831	1-216-805-11	METAL CHIP	47	5%	1/10W
R9832	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9833	1-216-851-11	METAL CHIP	330K	5%	1/10W
R9834	1-216-805-11	METAL CHIP	47	5%	1/10W
R9835	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9836	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9837	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9838	1-216-817-11	METAL CHIP	470	5%	1/10W
R9839	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9840	1-216-817-11	METAL CHIP	470	5%	1/10W
R9841	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9842	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R9843	1-216-809-11	METAL CHIP	100	5%	1/10W
R9844	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9845	1-216-817-11	METAL CHIP	470	5%	1/10W
R9846	1-216-813-11	METAL CHIP	220	5%	1/10W
R9847	1-216-797-11	METAL CHIP	10	5%	1/10W
R9848	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9849	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9850	1-216-813-11	METAL CHIP	220	5%	1/10W
R9851	1-216-809-11	METAL CHIP	100	5%	1/10W
R9852	1-216-809-11	METAL CHIP	100	5%	1/10W
R9853	1-216-809-11	METAL CHIP	100	5%	1/10W
R9855	1-216-813-11	METAL CHIP	220	5%	1/10W
R9856	1-216-809-11	METAL CHIP	100	5%	1/10W
R9858	1-216-809-11	METAL CHIP	100	5%	1/10W
R9859	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9860	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9861	1-216-809-11	METAL CHIP	100	5%	1/10W
R9862	1-216-809-11	METAL CHIP	100	5%	1/10W
R9864	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R9865	1-216-827-11	METAL CHIP	3.3K	5%	1/10W

PUSH TERMINAL

TB9300	1-537-712-11	TERMINAL, PUSH	

VARISTOR

VD9303	1-801-925-21	VARISTOR, CHIP	(1608)
VD9304	1-801-925-21	VARISTOR, CHIP	(1608)

UPU BP

REF. NO.	PART NO.	DESCRIPTION	VALUES
VD9305	1-801-925-21	VARISTOR, CHIP	(1608)
VD9306	1-801-925-21	VARISTOR, CHIP	(1608)
VD9307	1-801-925-21	VARISTOR, CHIP	(1608)
VD9308	1-801-925-21	VARISTOR, CHIP	(1608)
VD9309	1-801-925-21	VARISTOR, CHIP	(1608)
VD9310	1-801-925-21	VARISTOR, CHIP	(1608)
VD9311	1-801-925-21	VARISTOR, CHIP	(1608)
VD9313	1-801-925-21	VARISTOR, CHIP	(1608)
VD9314	1-801-925-21	VARISTOR, CHIP	(1608)
VD9319	1-801-925-21	VARISTOR, CHIP	(1608)
VD9320	1-801-925-21	VARISTOR, CHIP	(1608)
	CRYSTAL		
X9800	1-813-124-21	VIBRATOR, CERAMIC	

BP

*		**A-1052-773-B**	**BP BOARD, MOUNTED**
*	A1005	4-042-408-02	PIN(45), WIRE
*	A1006	4-042-408-02	PIN(45), WIRE
*	A2003	4-042-408-02	PIN(45), WIRE
*	A3701	4-042-408-02	PIN(45), WIRE
		CAPACITOR	
	C1001	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1002	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1003	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1004	1-164-947-11	CERAMIC CHIP 0.01µF 50V
	C1005	1-164-943-11	CERAMIC CHIP 0.01µF 10% 16V
	C1006	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1011	1-126-396-11	ELECT CHIP 47µF 20% 16V
	C1012	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1014	1-125-891-11	CERAMIC CHIP 0.47µF 10% 10V
	C1015	1-164-943-11	CERAMIC CHIP 0.01µF 10% 16V
	C1016	1-126-391-11	ELECT CHIP 47µF 20% 6.3V
	C1017	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1018	1-162-968-11	CERAMIC CHIP 0.0047µF 10% 50V
	C1019	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1020	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1021	1-162-917-11	CERAMIC CHIP 15pF 5% 50V
	C1022	1-125-777-11	CERAMIC CHIP 0.1µF 10% 10V
	C1023	1-162-917-11	CERAMIC CHIP 15pF 5% 50V
	C1024	1-162-970-11	CERAMIC CHIP 0.01µF 10% 25V

REF. NO.	PART NO.	DESCRIPTION	VALUES
C1025	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C1027	1-125-837-91	CERAMIC CHIP	1µF 10% 6.3V
C1029	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
C1030	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C1031	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C1032	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C1033	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C1034	1-162-966-11	CERAMIC CHIP	0.0022µF 10% 50V
C1035	1-126-390-11	ELECT CHIP	22µF 20% 6.3V
C1037	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C1039	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C1041	1-126-394-11	ELECT CHIP	10µF 20% 16V
C1042	1-126-391-11	ELECT CHIP	47µF 20% 6.3V
C1043	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2001	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2002	1-126-396-11	ELECT CHIP	47µF 20% 16V
C2004	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2005	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2006	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2007	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2011	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2012	1-128-357-11	ELECT CHIP	10µF 20% 16V
C2013	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2014	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2015	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2016	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2017	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2018	1-127-760-11	CERAMIC CHIP	4.7µF 10% 6.3V
C2019	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2020	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2021	1-128-995-21	ELECT CHIP	100µF 20% 10V
C2022	1-125-777-11	CERAMIC CHIP	0.1µF 10% 10V
C2023	1-164-230-11	CERAMIC CHIP	220pF 5% 50V
C2024	1-164-943-11	CERAMIC CHIP	0.01µF 10% 16V
C2025	1-164-943-11	CERAMIC CHIP	0.01µF 10% 16V
C2026	1-128-995-21	ELECT CHIP	100µF 20% 10V
C2027	1-126-392-11	ELECT CHIP	100µF 20% 6.3V
C2028	1-126-392-11	ELECT CHIP	100µF 20% 6.3V
C2029	1-109-982-11	CERAMIC CHIP	1µF 10% 10V
C2030	1-164-874-11	CERAMIC CHIP	100pF 5% 50V
C2031	1-164-874-11	CERAMIC CHIP	100pF 5% 50V
C2032	1-126-395-11	ELECT CHIP	22µF 20% 16V
C2033	1-126-395-11	ELECT CHIP	22µF 20% 16V
C2034	1-126-395-11	ELECT CHIP	22µF 20% 16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2035	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2079	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2036	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2080	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2037	1-126-390-11	ELECT CHIP	22µF	20%	6.3V	C2081	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2038	1-126-390-11	ELECT CHIP	22µF	20%	6.3V	C2082	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2039	1-126-392-11	ELECT CHIP	100µF	20%	6.3V	C2083	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2040	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2084	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2041	1-126-392-11	ELECT CHIP	100µF	20%	6.3V	C2085	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2042	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2086	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2043	1-126-392-11	ELECT CHIP	100µF	20%	6.3V	C2087	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2044	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2088	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2045	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2089	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2046	1-107-726-91	CERAMIC CHIP	0.01µF	10%	16V	C2090	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2047	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2092	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2048	1-164-874-11	CERAMIC CHIP	100pF	5%	50V	C2093	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2049	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2094	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2050	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2095	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2051	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2097	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2052	1-164-874-11	CERAMIC CHIP	100pF	5%	50V	C2098	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2053	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2099	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2054	1-137-710-11	CERAMIC CHIP	10µF	20%	6.3V	C2101	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2055	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2102	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2056	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2103	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2057	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2104	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C2058	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C2105	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2059	1-137-710-11	CERAMIC CHIP	10µF	20%	6.3V	C2106	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2060	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2107	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C2061	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2108	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C2062	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2109	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2063	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C2110	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C2064	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C3001	1-119-667-11	CERAMIC CHIP	22µF		10V
C2065	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V	C3002	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2066	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C3003	1-137-710-11	CERAMIC CHIP	10µF	20%	6.3V
C2067	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C3004	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2068	1-137-710-11	CERAMIC CHIP	10µF	20%	6.3V	C3005	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C2069	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3006	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C2070	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3007	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C2071	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3008	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C2072	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3009	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C2073	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3010	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C2074	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3011	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C2075	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3012	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C2076	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3013	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C2077	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3014	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C2078	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V	C3015	1-107-820-11	CERAMIC CHIP	0.1µF		16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3016	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3017	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3018	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3019	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3020	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3021	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3022	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3023	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3024	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3025	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3026	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3027	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3028	1-119-667-11	CERAMIC CHIP	22µF		10V
C3029	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3030	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3031	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3032	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3033	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3034	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3035	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3036	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3037	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3038	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3039	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3040	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3041	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3042	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3043	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3044	1-164-943-11	CERAMIC CHIP	0.01µF	10%	16V
C3045	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C3046	1-126-391-11	ELECT CHIP	47µF	20%	6.3V
C3047	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3049	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C3050	1-107-820-11	CERAMIC CHIP	0.1µF		16V
C3051	1-164-941-11	CERAMIC CHIP	0.0047µF	10%	16V
C3052	1-164-941-11	CERAMIC CHIP	0.0047µF	10%	16V
C3053	1-164-941-11	CERAMIC CHIP	0.0047µF	10%	16V
C3054	1-164-941-11	CERAMIC CHIP	0.0047µF	10%	16V
C3055	1-164-941-11	CERAMIC CHIP	0.0047µF	10%	16V
C3056	1-164-941-11	CERAMIC CHIP	0.0047µF	10%	16V
C3057	1-164-941-11	CERAMIC CHIP	0.0047µF	10%	16V
C3401	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3402	1-162-908-11	CERAMIC CHIP	3pF	0.25pF	50V
C3403	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3404	1-126-246-11	ELECT CHIP	220µF	20%	4V
C3405	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3406	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3407	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3408	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3409	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3410	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3411	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3412	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3413	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3414	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3415	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3416	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3417	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3418	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3419	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3420	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3421	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3422	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3423	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3424	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3425	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3426	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3427	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3428	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3429	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3430	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3431	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3432	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3434	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3435	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3436	1-128-993-21	ELECT CHIP	22µF	20%	10V
C3438	1-117-863-11	CERAMIC CHIP	0.47µF	10%	6.3V
C3439	1-128-993-21	ELECT CHIP	22µF	20%	10V
C3440	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3441	1-128-993-21	ELECT CHIP	22µF	20%	10V
C3442	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3443	1-126-246-11	ELECT CHIP	220µF	20%	4V
C3444	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3445	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3446	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3701	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3702	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3703	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3704	1-128-993-21	ELECT CHIP	22µF	20%	10V
C3705	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3706	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3707	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3708	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C3709	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C3710	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C3711	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3712	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C4001	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C4002	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C4003	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4004	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4005	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4006	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4007	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4008	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4009	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4010	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C4011	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4012	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C4013	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C4014	1-137-710-11	CERAMIC CHIP	10µF	20%	6.3V
C4015	1-137-710-11	CERAMIC CHIP	10µF	20%	6.3V
C4016	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4017	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4018	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C4019	1-100-159-91	CERAMIC CHIP	22µF	10%	6.3V
C4020	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4021	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4022	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C4023	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C4024	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C4025	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C4026	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C4027	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C4028	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C4030	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4031	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4032	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4033	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4034	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4035	1-162-908-11	CERAMIC CHIP	3pF	0.25pF	50V
C4036	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4037	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4038	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4039	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V
C4040	1-125-777-11	CERAMIC CHIP	0.1µF	10%	10V

CONNECTOR

	CN1001	1-817-900-11	CONNECTOR, BOARD TO BOARD	100P
*	CN1003	1-793-807-21	PIN, CONNECTOR (WITH PWB)	20P
	CN1004	1-573-290-21	PIN, CONNECTOR (1.5MM) (SMD)	4P
	CN1005	1-766-382-21	PIN, CONNECTOR (1.5MM)(SMD)	10P
*	CN1006	1-779-268-21	PIN, CONNECTOR (1.5MM)(SMD)	11P
*	CN3702	1-695-320-21	PIN, CONNECTOR (1.5MM)(SMD)	2P

DIODE

D1002	8-719-036-94	DIODE	RD5.6SB-T1
D1003	8-719-036-94	DIODE	RD5.6SB-T1
D1005	8-719-077-59	DIODE	1PS302
D1006	8-719-024-77	DIODE	HN1D03FU-TE85L
D1007	8-719-036-94	DIODE	RD5.6SB-T1
D1008	8-719-036-94	DIODE	RD5.6SB-T1
D1011	8-719-081-97	DIODE	MMDL914T1
D1012	8-719-081-97	DIODE	MMDL914T1
D3401	8-719-081-97	DIODE	MMDL914T1
D4002	8-719-081-97	DIODE	MMDL914T1
D4003	8-719-081-97	DIODE	MMDL914T1
D4004	8-719-081-97	DIODE	MMDL914T1
D4005	8-719-066-11	DIODE	1PS184-115
D4006	8-719-066-11	DIODE	1PS184-115

FUSE

F3701	1-414-445-11	FERRITE	0µH

FERRITE BEAD

FB1002	1-414-445-11	FERRITE	0µH
FB1003	1-414-445-11	FERRITE	0µH
FB2001	1-414-234-22	FERRITE	0µH
FB3001	1-414-445-11	FERRITE	0µH
FB3002	1-414-864-11	FERRITE	0µH
FB3003	1-414-445-11	FERRITE	0µH
FB3004	1-414-445-11	FERRITE	0µH
FB3005	1-414-445-11	FERRITE	0µH

BP

REF. NO.	PART NO.	DESCRIPTION	VALUES
FB3401	1-414-864-11	FERRITE	0µH
FB3405	1-414-864-11	FERRITE	0µH
FB3701	1-414-445-11	FERRITE	0µH
FB3702	1-414-445-11	FERRITE	0µH
FB3704	1-414-445-11	FERRITE	0µH
FB4001	1-414-445-11	FERRITE	0µH
FB4002	1-414-445-11	FERRITE	0µH
FB4003	1-414-445-11	FERRITE	0µH
FB4004	1-414-445-11	FERRITE	0µH
FB4005	1-414-445-11	FERRITE	0µH
FB4006	1-414-445-11	FERRITE	0µH
FB4007	1-414-445-11	FERRITE	0µH
FB4008	1-414-445-11	FERRITE	0µH
FB4009	1-414-445-11	FERRITE	0µH
FB4010	1-414-864-11	FERRITE	0µH
FB4011	1-414-864-11	FERRITE	0µH
FB4012	1-414-864-11	FERRITE	0µH
FB4013	1-414-864-11	FERRITE	0µH
	FILTER		
FL2001	1-234-560-21	FILTER, LOW PASS	
FL2002	1-234-559-21	FILTER, LOW PASS	
FL2003	1-234-559-21	FILTER, LOW PASS	
FL2004	1-234-177-21	FERRITE	0µH
FL2005	1-234-177-21	FERRITE	0µH
FL2006	1-234-177-21	FERRITE	0µH
FL2007	1-234-677-21	FILTER, EMI	
FL2008	1-234-177-21	FERRITE	0µH
FL3001	1-234-177-21	FERRITE	0µH
FL3002	1-234-177-21	FERRITE	0µH
FL3003	1-234-177-21	FERRITE	0µH
FL3004	1-234-177-21	FERRITE	0µH
FL4001	1-234-177-21	FERRITE	0µH
	IC		
IC1001	8-759-460-72	IC	BA033FP-E2
IC1002	6-804-710-02	IC	HD64F2376VFQ33V-ATMU1300
IC1003	6-703-225-01	IC	S-80928CNMC-G8YT2G
IC1004	6-702-688-01	IC	M24C64-WMN6T(B)
IC1005	8-759-549-03	IC	SN74LV132APWR
IC1006	8-759-592-49	IC	TC7SZ125FU(TE85R)
IC1007	8-759-476-80	IC	LM75CIMX-3

REF. NO.	PART NO.	DESCRIPTION	VALUES
IC2001	6-705-529-01	IC	LMH6658MMX/J5000172
IC2002	6-705-529-01	IC	LMH6658MMX/J5000172
IC2003	8-752-937-39	IC	CXP964032-003R
IC2004	8-759-712-65	IC	PQ070XZ01ZP
IC2005	8-759-712-65	IC	PQ070XZ01ZP
IC2006	8-752-425-02	IC	CXD3802BQ
IC3001	6-700-227-01	IC	MM1561JFBE
IC3002	8-752-422-52	IC	CXD2097BQ
IC3004	8-759-669-78	IC	TLC2933IPWR-12
IC3401	6-703-096-01	IC	CXD9738R
IC3402	6-700-394-01	IC	BA25BC0FP-E2
IC3403	8-759-669-75	IC	TLC2932IPWR
IC3701	6-804-292-01	IC	XC9572XL-10VQG44-ORBIT
IC3702	6-700-142-11	IC	DS90C385MTDX
IC3703	8-759-549-01	IC	SN74LV125APWR
IC4001	6-804-615-01	IC	MX29LV800TTC-70G-4MUP100
IC4002	8-759-549-03	IC	SN74LV132APWR
IC4003	8-759-712-65	IC	PQ070XZ01ZP
IC4004	8-759-712-65	IC	PQ070XZ01ZP
IC4005	6-704-191-01	IC	S-80829CNNB-B8OT2G
IC4006	6-704-192-01	IC	S-80822CNNB-B8HT2G
IC4007	6-706-362-01	IC	PW166B-10TL
IC4009	6-704-190-01	IC	SN74ALVCH16823DGGR
IC4010	8-759-669-44	IC	SN74LVC74APWR-12
	COIL		
L1001	1-412-030-11	INDUCTOR	22µH
L2001	1-469-525-91	INDUCTOR	10µH
L2002	1-469-525-91	INDUCTOR	10µH
L2003	1-469-525-91	INDUCTOR	10µH
L2004	1-412-026-11	INDUCTOR	1µH
L2005	1-469-525-91	INDUCTOR	10µH
L2006	1-412-026-11	INDUCTOR	1µH
L2007	1-469-525-91	INDUCTOR	10µH
L2008	1-469-525-91	INDUCTOR	10µH
L2009	1-412-029-11	INDUCTOR	10µH
L2010	1-469-525-91	INDUCTOR	10µH
L3001	1-469-525-91	INDUCTOR	10µH
L3002	1-469-528-91	INDUCTOR	100µH
L3003	1-469-528-91	INDUCTOR	100µH
L3402	1-469-561-21	INDUCTOR	100µH
L3403	1-469-561-21	INDUCTOR	100µH
L3701	1-456-583-11	INDUCTOR	0µH

BP

REF. NO.	PART NO.	DESCRIPTION	VALUES		
L3702	1-456-583-11	INDUCTOR	0µH		
L3703	1-456-583-11	INDUCTOR	0µH		
L3704	1-456-583-11	INDUCTOR	0µH		
L3705	1-456-583-11	INDUCTOR	0µH		
	TRANSISTOR				
Q1001	8-729-025-28	TRANSISTOR	2SK1828		
Q1002	8-729-025-28	TRANSISTOR	2SK1828		
Q1003	8-729-907-00	TRANSISTOR	DTC114EU		
Q1004	8-729-907-00	TRANSISTOR	DTC114EU		
Q1007	8-729-013-28	TRANSISTOR	HN1B01FU-TE85R		
Q1010	8-729-025-28	TRANSISTOR	2SK1828		
Q1011	8-729-025-28	TRANSISTOR	2SK1828		
Q2001	8-729-117-73	TRANSISTOR	2SC4178-F14		
Q2002	8-729-117-73	TRANSISTOR	2SC4178-F14		
Q2003	8-729-117-73	TRANSISTOR	2SC4178-F14		
Q2004	8-729-122-63	TRANSISTOR	2SA1226-E4		
Q2005	8-729-122-63	TRANSISTOR	2SA1226-E4		
Q2006	8-729-122-63	TRANSISTOR	2SA1226-E4		
Q2007	6-550-585-01	TRANSISTOR	2PC4081R-115		
Q2008	8-729-117-73	TRANSISTOR	2SC4178-F14		
Q2009	8-729-117-73	TRANSISTOR	2SC4178-F14		
Q2011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q2012	8-729-010-25	TRANSISTOR	MSD601-RT1		
Q3002	6-550-586-01	TRANSISTOR	2PA1576R-115		
Q3003	6-550-585-01	TRANSISTOR	2PC4081R-115		
Q3401	8-729-046-75	TRANSISTOR	SI2301DS-T1		
Q3402	8-729-907-00	TRANSISTOR	DTC114EU		
Q3403	8-729-028-86	TRANSISTOR	DTA143EUA-T106		
Q3404	8-729-907-00	TRANSISTOR	DTC114EU		
Q3405	6-550-014-01	TRANSISTOR	SSM6N15FU(TE85R)		
Q3701	6-550-014-01	TRANSISTOR	SSM6N15FU(TE85R)		
Q3702	8-729-907-00	TRANSISTOR	DTC114EU		
Q3703	8-729-028-86	TRANSISTOR	DTA143EUA-T106		
	RESISTOR				
R1002	1-216-296-11	SHORT CHIP			
R1003	1-216-296-11	SHORT CHIP			
R1004	1-216-296-11	SHORT CHIP			
R1007	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1008	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1009	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1010	1-218-990-11	SHORT CHIP			
R1011	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1012	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1013	1-218-973-11	RES-CHIP	47K	5%	1/16W
R1014	1-218-971-11	RES-CHIP	33K	5%	1/16W
R1015	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1016	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1017	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1018	1-216-864-11	SHORT CHIP			
R1019	1-218-895-11	METAL CHIP	100K	0.50%	1/10W
R1020	1-218-881-11	METAL CHIP	27K	0.50%	1/10W
R1021	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1023	1-220-183-81	RES-CHIP	1.1K	5%	1/16W
R1024	1-216-864-11	SHORT CHIP			
R1025	1-216-864-11	SHORT CHIP			
R1026	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1027	1-218-941-81	RES-CHIP	100	5%	1/16W
R1028	1-218-941-81	RES-CHIP	100	5%	1/16W
R1029	1-218-941-81	RES-CHIP	100	5%	1/16W
R1030	1-216-809-11	METAL CHIP	100	5%	1/10W
R1031	1-218-941-81	RES-CHIP	100	5%	1/16W
R1032	1-218-941-81	RES-CHIP	100	5%	1/16W
R1033	1-218-941-81	RES-CHIP	100	5%	1/16W
R1034	1-218-941-81	RES-CHIP	100	5%	1/16W
R1035	1-218-941-81	RES-CHIP	100	5%	1/16W
R1037	1-216-809-11	METAL CHIP	100	5%	1/10W
R1038	1-218-973-11	RES-CHIP	47K	5%	1/16W
R1039	1-218-973-11	RES-CHIP	47K	5%	1/16W
R1040	1-218-973-11	RES-CHIP	47K	5%	1/16W
R1041	1-218-941-81	RES-CHIP	100	5%	1/16W
R1042	1-218-941-81	RES-CHIP	100	5%	1/16W
R1043	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1045	1-218-990-11	SHORT CHIP			
R1046	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1047	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1048	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1049	1-218-990-11	SHORT CHIP			
R1050	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R1051	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1052	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1053	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R1055	1-218-945-11	RES-CHIP	220	5%	1/16W
R1056	1-218-945-11	RES-CHIP	220	5%	1/16W

BP

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1057	1-218-945-11	RES-CHIP	220	5%	1/16W
R1059	1-218-990-11	SHORT CHIP			
R1060	1-218-990-11	SHORT CHIP			
R1061	1-218-973-11	RES-CHIP	47K	5%	1/16W
R1062	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1063	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1064	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1065	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1066	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1067	1-216-864-11	SHORT CHIP			
R1068	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1069	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R1070	1-218-941-81	RES-CHIP	100	5%	1/16W
R1071	1-218-941-81	RES-CHIP	100	5%	1/16W
R1072	1-216-809-11	METAL CHIP	100	5%	1/10W
R1073	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1074	1-218-941-81	RES-CHIP	100	5%	1/16W
R1075	1-218-941-81	RES-CHIP	100	5%	1/16W
R1077	1-216-864-11	SHORT CHIP			
R1078	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1079	1-216-864-11	SHORT CHIP			
R1080	1-216-864-11	SHORT CHIP			
R1081	1-216-818-11	METAL CHIP	560	5%	1/10W
R1082	1-216-813-11	METAL CHIP	220	5%	1/10W
R1083	1-218-941-81	RES-CHIP	100	5%	1/16W
R1084	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1085	1-218-941-81	RES-CHIP	100	5%	1/16W
R1086	1-218-941-81	RES-CHIP	100	5%	1/16W
R1087	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1089	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1092	1-218-945-11	RES-CHIP	220	5%	1/16W
R1094	1-216-864-11	SHORT CHIP			
R1096	1-216-805-11	METAL CHIP	47	5%	1/10W
R1097	1-216-805-11	METAL CHIP	47	5%	1/10W
R1098	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1100	1-216-864-11	SHORT CHIP			
R1101	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1102	1-216-864-11	SHORT CHIP			
R1103	1-216-864-11	SHORT CHIP			
R1104	1-216-864-11	SHORT CHIP			
R1105	1-216-864-11	SHORT CHIP			
R1106	1-216-864-11	SHORT CHIP			
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-218-990-11	SHORT CHIP			
R1111	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R1114	1-218-990-11	SHORT CHIP			
R1115	1-218-990-11	SHORT CHIP			
R1116	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1117	1-216-864-11	SHORT CHIP			
R1118	1-216-864-11	SHORT CHIP			
R1119	1-216-864-11	SHORT CHIP			
R1120	1-218-990-11	SHORT CHIP			
R1121	1-218-990-11	SHORT CHIP			
R2001	1-216-809-11	METAL CHIP	100	5%	1/10W
R2002	1-216-809-11	METAL CHIP	100	5%	1/10W
R2003	1-216-809-11	METAL CHIP	100	5%	1/10W
R2004	1-218-952-11	RES-CHIP	820	5%	1/16W
R2005	1-218-952-11	RES-CHIP	820	5%	1/16W
R2006	1-218-952-11	RES-CHIP	820	5%	1/16W
R2007	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R2008	1-218-679-11	METAL CHIP	300	0.50%	1/10W
R2009	1-218-679-11	METAL CHIP	300	0.50%	1/10W
R2010	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R2011	1-218-679-11	METAL CHIP	300	0.50%	1/10W
R2012	1-216-809-11	METAL CHIP	100	5%	1/10W
R2013	1-216-809-11	METAL CHIP	100	5%	1/10W
R2014	1-218-679-11	METAL CHIP	300	0.50%	1/10W
R2015	1-216-809-11	METAL CHIP	100	5%	1/10W
R2016	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2017	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2018	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2019	1-216-864-11	SHORT CHIP			
R2020	1-216-864-11	SHORT CHIP			
R2021	1-216-864-11	SHORT CHIP			
R2023	1-216-864-11	SHORT CHIP			
R2024	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2025	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2026	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2027	1-216-864-11	SHORT CHIP			
R2028	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2029	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R2030	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R2031	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2032	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R2034	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2035	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R2036	1-218-652-11	METAL CHIP	22	0.50%	1/10W

BP

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2037	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R2038	1-216-847-11	METAL CHIP	150K	5%	1/10W
R2041	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R2043	1-218-933-11	RES-CHIP	22	5%	1/16W
R2044	1-218-937-11	RES-CHIP	47	5%	1/16W
R2045	1-218-937-11	RES-CHIP	47	5%	1/16W
R2046	1-218-688-11	METAL CHIP	680	0.50%	1/10W
R2047	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R2048	1-218-941-81	RES-CHIP	100	5%	1/16W
R2050	1-216-864-11	SHORT CHIP			
R2051	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2052	1-218-941-81	RES-CHIP	100	5%	1/16W
R2053	1-218-688-11	METAL CHIP	680	0.50%	1/10W
R2054	1-216-864-11	SHORT CHIP			
R2055	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2057	1-216-864-11	SHORT CHIP			
R2058	1-216-864-11	SHORT CHIP			
R2059	1-208-697-11	METAL CHIP	3.9K	0.50%	1/16W
R2060	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R2061	1-218-941-81	RES-CHIP	100	5%	1/16W
R2062	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2063	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R2064	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R2065	1-218-989-11	RES-CHIP	1M	5%	1/16W
R2066	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2067	1-218-990-11	SHORT CHIP			
R2068	1-218-971-11	RES-CHIP	33K	5%	1/16W
R2069	1-218-956-11	RES-CHIP	1.8K	5%	1/16W
R2070	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R2071	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R2072	1-218-693-11	METAL CHIP	1.1K	0.50%	1/10W
R2073	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R2075	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R2076	1-218-990-11	SHORT CHIP			
R2077	1-218-990-11	SHORT CHIP			
R2078	1-216-864-11	SHORT CHIP			
R2079	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R2080	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R2081	1-216-864-11	SHORT CHIP			
R2086	1-216-864-11	SHORT CHIP			
R2087	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2088	1-218-941-81	RES-CHIP	100	5%	1/16W
R2089	1-218-941-81	RES-CHIP	100	5%	1/16W
R2091	1-216-864-11	SHORT CHIP			
R2092	1-216-864-11	SHORT CHIP			
R2093	1-218-990-11	SHORT CHIP			
R2094	1-218-990-11	SHORT CHIP			
R2095	1-218-933-11	RES-CHIP	22	5%	1/16W
R2096	1-218-985-11	RES-CHIP	470K	5%	1/16W
R2097	1-218-990-11	SHORT CHIP			
R2098	1-218-937-11	RES-CHIP	47	5%	1/16W
R2099	1-218-937-11	RES-CHIP	47	5%	1/16W
R2100	1-218-933-11	RES-CHIP	22	5%	1/16W
R2101	1-218-937-11	RES-CHIP	47	5%	1/16W
R2102	1-218-937-11	RES-CHIP	47	5%	1/16W
R2103	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2104	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2105	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2106	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2107	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2108	1-218-990-11	SHORT CHIP			
R2109	1-218-990-11	SHORT CHIP			
R2110	1-218-990-11	SHORT CHIP			
R2111	1-218-990-11	SHORT CHIP			
R2112	1-218-933-11	RES-CHIP	22	5%	1/16W
R2200	1-216-296-11	SHORT CHIP			
R2201	1-216-296-11	SHORT CHIP			
R2202	1-216-296-11	SHORT CHIP			
R2203	1-216-296-11	SHORT CHIP			
R2204	1-216-296-11	SHORT CHIP			
R2205	1-216-296-11	SHORT CHIP			
R2206	1-216-296-11	SHORT CHIP			
R2207	1-216-296-11	SHORT CHIP			
R3001	1-218-933-11	RES-CHIP	22	5%	1/16W
R3004	1-218-937-11	RES-CHIP	47	5%	1/16W
R3005	1-218-941-81	RES-CHIP	100	5%	1/16W
R3006	1-218-941-81	RES-CHIP	100	5%	1/16W
R3007	1-218-933-11	RES-CHIP	22	5%	1/16W
R3008	1-218-945-11	RES-CHIP	220	5%	1/16W
R3009	1-218-945-11	RES-CHIP	220	5%	1/16W
R3010	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W
R3011	1-218-945-11	RES-CHIP	220	5%	1/16W
R3012	1-218-933-11	RES-CHIP	22	5%	1/16W
R3013	1-220-180-11	RES-CHIP	620	5%	1/16W
R3014	1-218-990-11	SHORT CHIP			
R3015	1-218-990-11	SHORT CHIP			
R3018	1-208-873-81	METAL CHIP	270	0.50%	1/16W
R3023	1-218-990-11	SHORT CHIP			

BP

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3024	1-218-941-81	RES-CHIP	100	5%	1/16W
R3025	1-218-941-81	RES-CHIP	100	5%	1/16W
R3042	1-218-933-11	RES-CHIP	22	5%	1/16W
R3043	1-218-933-11	RES-CHIP	22	5%	1/16W
R3050	1-218-990-11	SHORT CHIP			
R3057	1-218-990-11	SHORT CHIP			
R3058	1-218-990-11	SHORT CHIP			
R3059	1-218-941-81	RES-CHIP	100	5%	1/16W
R3066	1-218-969-11	RES-CHIP	22K	5%	1/16W
R3067	1-218-985-11	RES-CHIP	470K	5%	1/16W
R3068	1-218-933-11	RES-CHIP	22	5%	1/16W
R3069	1-218-945-11	RES-CHIP	220	5%	1/16W
R3070	1-218-953-11	RES-CHIP	1K	5%	1/16W
R3071	1-218-945-11	RES-CHIP	220	5%	1/16W
R3072	1-218-947-11	RES-CHIP	330	5%	1/16W
R3073	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R3074	1-208-696-11	METAL CHIP	3.6K	0.50%	1/16W
R3075	1-218-990-11	SHORT CHIP			
R3076	1-218-985-11	RES-CHIP	470K	5%	1/16W
R3077	1-218-965-11	RES-CHIP	10K	5%	1/16W
R3401	1-216-864-11	SHORT CHIP			
R3403	1-216-864-11	SHORT CHIP			
R3405	1-216-864-11	SHORT CHIP			
R3407	1-216-864-11	SHORT CHIP			
R3409	1-216-811-11	METAL CHIP	150	5%	1/10W
R3410	1-216-864-11	SHORT CHIP			
R3411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3412	1-216-801-11	METAL CHIP	22	5%	1/10W
R3415	1-216-864-11	SHORT CHIP			
R3416	1-218-853-11	METAL CHIP	1.8K	0.50%	1/10W
R3418	1-216-864-11	SHORT CHIP			
R3419	1-216-864-11	SHORT CHIP			
R3421	1-216-864-11	SHORT CHIP			
R3424	1-216-864-11	SHORT CHIP			
R3426	1-216-864-11	SHORT CHIP			
R3428	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3429	1-218-885-11	METAL CHIP	39K	0.50%	1/10W
R3430	1-218-858-11	METAL CHIP	3K	0.50%	1/10W
R3433	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3435	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3436	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3437	1-216-864-11	SHORT CHIP			
R3439	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3701	1-216-801-11	METAL CHIP	22	5%	1/10W
R3703	1-216-864-11	SHORT CHIP			
R3705	1-216-864-11	SHORT CHIP			
R3707	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3708	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3709	1-216-797-11	METAL CHIP	10	5%	1/10W
R3710	1-218-941-81	RES-CHIP	100	5%	1/16W
R3711	1-218-941-81	RES-CHIP	100	5%	1/16W
R3712	1-218-941-81	RES-CHIP	100	5%	1/16W
R3717	1-216-864-11	SHORT CHIP			
R3718	1-216-864-11	SHORT CHIP			
R3737	1-216-864-11	SHORT CHIP			
R4001	1-216-864-11	SHORT CHIP			
R4002	1-216-864-11	SHORT CHIP			
R4003	1-216-801-11	METAL CHIP	22	5%	1/10W
R4004	1-216-805-11	METAL CHIP	47	5%	1/10W
R4005	1-216-805-11	METAL CHIP	47	5%	1/10W
R4006	1-216-805-11	METAL CHIP	47	5%	1/10W
R4007	1-216-864-11	SHORT CHIP			
R4008	1-216-801-11	METAL CHIP	22	5%	1/10W
R4010	1-216-864-11	SHORT CHIP			
R4011	1-216-864-11	SHORT CHIP			
R4012	1-216-859-11	METAL CHIP	1.5M	5%	1/10W
R4013	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R4014	1-218-990-11	SHORT CHIP			
R4015	1-218-990-11	SHORT CHIP			
R4016	1-216-802-11	METAL CHIP	27	5%	1/10W
R4017	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R4018	1-216-864-11	SHORT CHIP			
R4020	1-216-805-11	METAL CHIP	47	5%	1/10W
R4021	1-216-805-11	METAL CHIP	47	5%	1/10W
R4023	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4028	1-216-864-11	SHORT CHIP			
R4029	1-216-864-11	SHORT CHIP			
R4030	1-216-864-11	SHORT CHIP			
R4031	1-216-864-11	SHORT CHIP			
R4032	1-216-864-11	SHORT CHIP			
R4033	1-216-864-11	SHORT CHIP			
R4034	1-218-990-11	SHORT CHIP			
R4035	1-218-990-11	SHORT CHIP			
R4036	1-218-990-11	SHORT CHIP			
R4037	1-218-990-11	SHORT CHIP			
R4038	1-218-990-11	SHORT CHIP			
R4040	1-218-990-11	SHORT CHIP			
R4041	1-218-941-81	RES-CHIP	100	5%	1/16W

BP

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R4042	1-218-941-81	RES-CHIP	100	5%	1/16W
R4043	1-218-941-81	RES-CHIP	100	5%	1/16W
R4047	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4048	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4050	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4051	1-216-809-11	METAL CHIP	100	5%	1/10W
R4053	1-216-864-11	SHORT CHIP			
R4055	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4057	1-216-864-11	SHORT CHIP			
R4058	1-216-864-11	SHORT CHIP			
R4060	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R4062	1-216-864-11	SHORT CHIP			
R4063	1-218-990-11	SHORT CHIP			
R4064	1-218-990-11	SHORT CHIP			
R4065	1-218-990-11	SHORT CHIP			
R4066	1-218-990-11	SHORT CHIP			
R4067	1-218-990-11	SHORT CHIP			
R4068	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R4069	1-216-864-11	SHORT CHIP			
R4070	1-218-990-11	SHORT CHIP			
R4071	1-218-864-11	METAL CHIP	5.1K	0.50%	1/10W
R4072	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R4073	1-208-898-81	METAL CHIP	3K	0.50%	1/16W
R4074	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R4075	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4076	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4077	1-216-839-11	METAL CHIP	33K	5%	1/10W
R4078	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4079	1-216-809-11	METAL CHIP	100	5%	1/10W
R4080	1-216-864-11	SHORT CHIP			
R4081	1-216-839-11	METAL CHIP	33K	5%	1/10W
R4083	1-216-864-11	SHORT CHIP			
R4087	1-216-864-11	SHORT CHIP			
R4088	1-216-864-11	SHORT CHIP			
R4089	1-216-801-11	METAL CHIP	22	5%	1/10W
R4090	1-216-813-11	METAL CHIP	220	5%	1/10W
R4091	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4092	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4093	1-216-864-11	SHORT CHIP			
R4095	1-216-805-11	METAL CHIP	47	5%	1/10W
R4096	1-216-864-11	SHORT CHIP			
R4097	1-216-864-11	SHORT CHIP			
R4098	1-216-864-11	SHORT CHIP			
R4099	1-216-864-11	SHORT CHIP			

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R4100	1-216-801-11	METAL CHIP	22	5%	1/10W
R4101	1-216-801-11	METAL CHIP	22	5%	1/10W
R4102	1-216-864-11	SHORT CHIP			

RESISTOR BRIDGE

RB1002	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1003	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1004	1-239-674-81	RESISTOR, NETWORK 100	
RB1005	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB1006	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1007	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1008	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1009	1-234-380-21	RES, NETWORK 47KX4	(1005)
RB1010	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1011	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1012	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1013	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1014	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1015	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1016	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1017	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1018	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1019	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1020	1-239-674-81	RESISTOR, NETWORK 100	
RB1021	1-239-674-81	RESISTOR, NETWORK 100	
RB1022	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1023	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1024	1-239-674-81	RESISTOR, NETWORK 100	
RB1025	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1026	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1027	1-234-372-21	RES, NETWORK 100X4	(1005)
RB1028	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2001	1-234-371-21	RES, NETWORK 47X4	(1005)
RB2002	1-234-795-21	RES, NETWORK 0X4	(2010)
RB2003	1-234-795-21	RES, NETWORK 0X4	(2010)
RB2004	1-234-795-21	RES, NETWORK 0X4	(2010)
RB2005	1-234-795-21	RES, NETWORK 0X4	(2010)
RB2006	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB2007	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2008	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2009	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2010	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2011	1-234-372-21	RES, NETWORK 100X4	(1005)

BP AU

REF. NO.	PART NO.	DESCRIPTION	VALUES
RB2012	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2013	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2014	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2015	1-234-372-21	RES, NETWORK 100X4	(1005)
RB2016	1-239-670-81	RESISTOR, NETWORK 47	
RB2017	1-234-371-21	RES, NETWORK 47X4	(1005)
RB2018	1-234-371-21	RES, NETWORK 47X4	(1005)
RB2019	1-239-670-81	RESISTOR, NETWORK 47	
RB2020	1-234-371-21	RES, NETWORK 47X4	(1005)
RB2021	1-234-371-21	RES, NETWORK 47X4	(1005)
RB3001	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3002	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3003	1-234-371-21	RES, NETWORK 47X4	(1005)
RB3004	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3006	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3008	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3009	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3011	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3013	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3014	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3015	1-234-372-21	RES, NETWORK 100X4	(1005)
RB3401	1-233-785-91	RES, NETWORK 100	(1608)""""
RB3707	1-234-795-21	RES, NETWORK 0X4	(2010)
RB3708	1-234-795-21	RES, NETWORK 0X4	(2010)
RB3709	1-234-795-21	RES, NETWORK 0X4	(2010)
RB3710	1-234-795-21	RES, NETWORK 0X4	(2010)
RB3711	1-234-795-21	RES, NETWORK 0X4	(2010)
RB3712	1-234-795-21	RES, NETWORK 0X4	(2010)
RB4001	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4002	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4003	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4004	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4005	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4006	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4007	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4008	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4009	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4010	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4011	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4012	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4013	1-234-400-21	CONDUCTOR, NETWORK	(2010)
RB4014	1-234-400-21	CONDUCTOR, NETWORK	(2010)
RB4015	1-234-400-21	CONDUCTOR, NETWORK	(2010)
RB4016	1-234-400-21	CONDUCTOR, NETWORK	(2010)
RB4017	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4018	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4019	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4020	1-234-371-21	RES, NETWORK 47X4	(1005)
RB4021	1-239-674-81	RESISTOR, NETWORK 100	
RB4022	1-239-674-81	RESISTOR, NETWORK 100	
RB4023	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4024	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4025	1-234-370-21	RES, NETWORK 22X4	(1005)
RB4026	1-234-370-21	RES, NETWORK 22X4	(1005)

CHECKER CHIP

TP1001	1-535-757-11	CHIP, CHECKER	
TP3401	1-535-757-11	CHIP, CHECKER	
TP3701	1-535-757-11	CHIP, CHECKER	
TP3702	1-535-757-11	CHIP, CHECKER	
TP3704	1-535-757-11	CHIP, CHECKER	

CRYSTAL

X1001	1-813-326-21	VIBRATOR, CRYSTAL	
X2001	1-795-244-11	VIBRATOR, CERAMIC	
X2002	1-795-951-21	QUARTZ CRYSTAL OSCILLATOR(SMD)	
X3401	1-795-416-21	VIBRATOR, CRYSTAL	
X4001	1-767-655-21	VIBRATOR, CRYSTAL	

AU

*	**A-1052-775-A**	**AU BOARD, MOUNTED**	
	4-382-854-01	SCREW (M3X8), P, SW (+)	

CAPACITOR

C5500	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C5501	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C5502	1-126-404-11	ELECT CHIP	4.7µF	20%	50V
C5503	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5504	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5505	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C5506	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C5507	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C5508	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C5509	1-162-927-11	CERAMIC CHIP	100pF	5%	50V

AU

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5510	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5511	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C5512	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C5513	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C5514	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C5515	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C5516	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5517	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5518	1-126-396-11	ELECT CHIP	47µF	20%	16V
C5519	1-126-404-11	ELECT CHIP	4.7µF	20%	50V
C5520	1-162-995-11	CERAMIC CHIP	0.022µF		50V
C5521	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5522	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5523	1-131-661-21	ELECT CHIP	100µF	20%	10V
C5524	1-126-396-11	ELECT CHIP	47µF	20%	16V
C5525	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5526	1-126-396-11	ELECT CHIP	47µF	20%	16V
C5527	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5528	1-126-394-11	ELECT CHIP	10µF	20%	16V
C5529	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5530	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5531	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5537	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C5538	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C6000	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6001	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6002	1-124-779-00	ELECT CHIP	10µF	20%	16V
C6003	1-124-779-00	ELECT CHIP	10µF	20%	16V
C6005	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C6006	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C6007	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6008	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6009	1-124-779-00	ELECT CHIP	10µF	20%	16V
C6010	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6011	1-117-681-11	ELECT CHIP	100µF	20%	16V
C6012	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6013	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6014	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6015	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6016	1-117-681-11	ELECT CHIP	100µF	20%	16V
C6017	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C6018	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C6019	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6020	1-126-394-11	ELECT CHIP	10µF	20%	16V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C6021	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6022	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6023	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6100	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C6101	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C6102	1-162-970-11	CERAMIC CHIP	0.01µF	5%	25V
C6103	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C6104	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C6105	1-128-536-11	ELECT CHIP	100µF	20%	25V
C6106	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C6107	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C6108	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C6109	1-125-779-21	CERAMIC CHIP	0.022µF	5%	25V
C6110	1-125-779-21	CERAMIC CHIP	0.022µF	5%	25V
C6111	1-100-597-91	CERAMIC CHIP	0.1µF	10%	25V
C6112	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6113	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6114	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6115	1-128-934-91	CERAMIC CHIP	0.33µF	20%	10V
C6116	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6117	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6118	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6119	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6120	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6121	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6122	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6123	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6124	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6125	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6126	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6127	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6128	1-126-401-21	ELECT CHIP	1µF	20%	50V
C6129	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6130	1-125-779-21	CERAMIC CHIP	0.022µF	5%	25V
C6131	1-125-779-21	CERAMIC CHIP	0.022µF	5%	25V
C6132	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C6133	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C6134	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C6135	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C6136	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C6137	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C6138	1-162-970-11	CERAMIC CHIP	0.01µF	5%	25V
C6139	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C6140	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C6141	1-125-779-21	CERAMIC CHIP	0.022µF	5%	25V	C6331	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C6142	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6332	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6143	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6333	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6144	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6334	1-126-603-11	ELECT CHIP	4.7µF	20%	35V
C6145	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6335	1-126-603-11	ELECT CHIP	4.7µF	20%	35V
C6146	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6336	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C6147	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6337	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C6148	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6338	1-117-681-11	ELECT CHIP	100µF	20%	16V
C6149	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6339	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C6150	1-126-401-21	ELECT CHIP	1µF	20%	50V	C6340	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C6151	1-165-112-11	CERAMIC CHIP	0.33µF		16V	C6341	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6152	1-164-345-11	CERAMIC CHIP	0.082µF	10%	25V	C6342	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6153	1-164-345-11	CERAMIC CHIP	0.082µF	10%	25V	C6343	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6154	1-124-779-00	ELECT CHIP	10µF	20%	16V	C6500	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6155	1-124-779-00	ELECT CHIP	10µF	20%	16V	C6501	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6300	1-126-394-11	ELECT CHIP	10µF	20%	16V	C6502	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6301	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V	C6503	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
C6302	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V	C6504	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
C6303	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6505	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6304	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C6506	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6305	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C6507	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
C6306	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C6508	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
C6307	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V	C6509	1-100-633-21	ELECT CHIP	47µF	20%	35V
C6308	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C6510	1-100-633-21	ELECT CHIP	47µF	20%	35V
C6309	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C6511	1-100-633-21	ELECT CHIP	47µF	20%	35V
C6312	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C6512	1-100-633-21	ELECT CHIP	47µF	20%	35V
C6313	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C6513	1-117-713-21	ELECT CHIP	100µF	20%	50V
C6314	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C6514	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6315	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V	C6515	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6316	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C6516	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C6317	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C6517	1-100-701-11	ELECT	5600µF	20%	50V
C6318	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C6519	1-165-753-21	ELECT	820µF	20%	50V
C6319	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V	C6520	1-165-753-21	ELECT	820µF	20%	50V
C6320	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C6521	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6321	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C6522	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6322	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V	C6600	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6323	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C6601	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6324	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C6602	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6325	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V	C6603	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6326	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C6605	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V
C6327	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V	C6607	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V
C6328	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	C6608	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V
C6329	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	C6609	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V
C6330	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C6610	1-128-357-11	ELECT CHIP	10µF	20%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C6611	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6612	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6613	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V
C6614	1-137-894-21	ELECT CHIP	470µF	20%	25V
C6615	1-125-889-91	CERAMIC CHIP	2.2µF	10%	10V
C6616	1-126-396-11	ELECT CHIP	47µF	20%	16V
C6617	1-126-396-11	ELECT CHIP	47µF	20%	16V
C6618	1-126-405-11	ELECT CHIP	10µF	20%	50V
C6619	1-126-405-11	ELECT CHIP	10µF	20%	50V
C6620	1-126-404-11	ELECT CHIP	4.7µF	20%	50V
C6621	1-126-405-11	ELECT CHIP	10µF	20%	50V
C6622	1-126-404-11	ELECT CHIP	4.7µF	20%	50V
C6623	1-126-405-11	ELECT CHIP	10µF	20%	50V
C6624	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6625	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6626	1-126-396-11	ELECT CHIP	47µF	20%	16V
C6627	1-126-394-11	ELECT CHIP	10µF	20%	16V
C6628	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6629	1-128-357-11	ELECT CHIP	10µF	20%	16V
C6700	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6701	1-165-585-21	ELECT CHIP	47µF	20%	25V
C6702	1-126-396-11	ELECT CHIP	47µF	20%	16V
C6800	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6801	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C7000	1-126-396-11	ELECT CHIP	47µF	20%	16V
C7001	1-126-396-11	ELECT CHIP	47µF	20%	16V
C7002	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7003	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7004	1-128-528-11	ELECT	470µF	20%	25V
C7005	1-128-528-11	ELECT	470µF	20%	25V
C7006	1-100-118-21	ELECT CHIP	82µF	20%	16V
C7007	1-135-349-21	ELECT CHIP	22µF	20%	20V
C7008	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7009	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7010	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7011	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7012	1-126-396-11	ELECT CHIP	47µF	20%	16V
C7013	1-128-398-11	ELECT CHIP	220µF	20%	16V
C7014	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7015	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7016	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C7017	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7018	1-127-573-11	CERAMIC CHIP	1µF	10%	16V
C7019	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7020	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C7022	1-162-969-11	CERAMIC CHIP	0.0068µF	10%	25V
C7023	1-162-969-11	CERAMIC CHIP	0.0068µF	10%	25V
C7024	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7025	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C7026	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C7027	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C7028	1-127-820-11	CERAMIC CHIP	4.7µF	10%	16V
C7029	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C7030	1-135-372-31	ELECT	470µF	20%	10V
C7032	1-135-960-91	CERAMIC CHIP	10µF	10%	25V
C7033	1-128-359-11	ELECT CHIP	100µF	20%	10V
C7034	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C7035	1-135-960-91	CERAMIC CHIP	10µF	10%	25V
C7036	1-135-960-91	CERAMIC CHIP	10µF	10%	25V
C7041	1-128-360-11	ELECT CHIP	220µF	20%	10V
C7042	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C7043	1-165-669-21	ELECT CHIP	220µF	20%	6.3V
C7044	1-165-669-21	ELECT CHIP	220µF	20%	6.3V

CONNECTOR

	CN5500	1-794-283-21	PIN, CONNECTOR (FOR PWB)	40P
*	CN6500	1-764-250-11	PIN, CONNECTOR (PC BOARD)	4P
	CN7000	1-816-587-21	PIN, CONNECTOR (PC BOARD)	15P

DIODE

D5500	8-719-081-97	DIODE	MMDL914T1
D5501	8-719-977-28	DIODE	DTZ10B
D5502	8-719-064-03	DIODE	HZU16B2TRF
D5503	8-719-064-03	DIODE	HZU16B2TRF
D5504	8-719-081-97	DIODE	MMDL914T1
D5505	8-719-081-97	DIODE	MMDL914T1
D6000	8-719-800-76	DIODE	1SS226
D6001	8-719-800-76	DIODE	1SS226
D6501	6-500-253-01	DIODE	RB053L-30TE25
D6504	6-500-253-01	DIODE	RB053L-30TE25
D6600	8-719-081-97	DIODE	MMDL914T1
D6602	8-719-081-97	DIODE	MMDL914T1
D6700	8-719-081-97	DIODE	MMDL914T1
D6701	8-719-066-11	DIODE	1PS184-115
D6800	8-719-081-97	DIODE	MMDL914T1

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REF. NO.	PART NO.	DESCRIPTION	VALUES
D7001	6-500-579-01	DIODE	PTZ-TE25-6.8B
D7002	6-500-294-01	DIODE	PTZ-TE25-3.9B
D7003	6-500-295-01	DIODE	PTZ-TE25-5.6B
	FERRITE BEAD		
FB5501	1-414-233-22	FERRITE	0µH
FB5502	1-414-233-22	FERRITE	0µH
FB5503	1-414-233-22	FERRITE	0µH
FB5504	1-414-233-22	FERRITE	0µH
FB7050	1-469-775-21	FERRITE	0µH
FB7052	1-469-775-21	FERRITE	0µH
FB7053	1-469-775-21	FERRITE	0µH
FB7054	1-414-445-11	FERRITE	0µH
FB7055	1-469-775-21	FERRITE	0µH
	IC		
IC5500	6-703-225-01	IC	S-80928CNMC-G8YT2G
IC6000	8-759-278-58	IC	NJM4558V-TE2
IC6001	8-759-524-00	IC	TC4052BF(EL,N)
IC6002	8-759-278-58	IC	NJM4558V-TE2
IC6100	6-706-456-01	IC	NJW1169FH1
IC6300	8-759-972-97	IC	BA3823LS
IC6301	8-759-278-58	IC	NJM4558V-TE2
IC6302	8-759-836-72	IC	NJM2521V(TE2)
IC6303	8-759-836-72	IC	NJM2521V(TE2)
IC6500	8-759-278-58	IC	NJM4558V-TE2
IC6501	8-759-246-70	IC	TA8216H
IC6600	8-759-524-00	"	IC TC4052BF(EL,N)
IC6601	8-759-359-49	IC	NJM3414AV(TE2)
IC6602	8-759-278-58	IC	NJM4558V-TE2
IC6700	6-703-225-01	IC	S-80928CNMC-G8YT2G
IC6800	8-759-075-70	IC	TA75S393F
IC7000	8-759-564-82	IC	BA09ST-V5
IC7001	8-759-394-36	IC	BA09T
IC7002	6-703-249-01	IC	SN105233DBTR
IC7003	6-704-407-01	IC	PQ1CZ41H2ZPH
IC7005	8-759-450-47	IC	BA05T
	COIL		
L5500	1-412-030-11	INDUCTOR	22µH
L5501	1-412-030-11	INDUCTOR	22µH
L5502	1-412-030-11	INDUCTOR	22µH
L5503	1-412-030-11	INDUCTOR	22µH
L6000	1-412-058-11	INDUCTOR	10µH
L6500	1-406-977-21	INDUCTOR	100µH
L7001	1-406-657-11	INDUCTOR	4.7µH
L7002	1-400-323-21	INDUCTOR	47µH
L7003	1-424-758-21	INDUCTOR	10µH
L7004	1-424-758-21	INDUCTOR	10µH
L7005	1-400-241-21	INDUCTOR	3µH
L7006	1-400-241-21	INDUCTOR	3µH
	PHOTO COUPLER		
PH6600	8-719-053-15	PHOTO COUPLER	PS2701-1-E3-L
	IC LINK		
PS5500	1-533-674-11	IC LINK	0.5A 50V
PS6500	1-533-595-31	IC LINK	3.15A 90V
PS7000	1-533-593-31	IC LINK	2A 90V
PS7001	1-533-596-21	IC LINK	4A 90V
	TRANSISTOR		
Q5500	6-550-549-01	TRANSISTOR	DTC114EUAFT106
Q5501	6-550-549-01	TRANSISTOR	DTC114EUAFT106
Q5502	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5503	6-550-586-01	TRANSISTOR	2PA1576R-115
Q5504	6-550-586-01	TRANSISTOR	2PA1576R-115
Q5505	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5506	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5507	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5508	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5509	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5510	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5511	6-550-586-01	TRANSISTOR	2PA1576R-115
Q5513	6-550-549-01	TRANSISTOR	DTC114EUAFT106
Q5515	6-550-549-01	TRANSISTOR	DTC114EUAFT106
Q5517	6-550-585-01	TRANSISTOR	2PC4081R-115
Q5518	6-550-586-01	TRANSISTOR	2PA1576R-115
Q6000	8-729-905-35	TRANSISTOR	2SC4081-R
Q6001	6-550-076-01	TRANSISTOR	MUN5213T1
Q6002	6-550-076-01	TRANSISTOR	MUN5213T1
Q6100	8-729-044-58	TRANSISTOR	SI2304DS-T1

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REF. NO.	PART NO.	DESCRIPTION	VALUES
Q6102	6-550-076-01	TRANSISTOR	MUN5213T1
Q6301	8-729-044-58	TRANSISTOR	SI2304DS-T1
Q6501	6-550-586-01	TRANSISTOR	2PA1576R-115
Q6600	8-729-920-21	TRANSISTOR	DTC314TK-T-146
Q6601	8-729-920-21	TRANSISTOR	DTC314TK-T-146
Q6602	8-729-044-58	TRANSISTOR	SI2304DS-T1
Q6603	8-729-044-58	TRANSISTOR	SI2304DS-T1
Q6604	8-729-044-58	TRANSISTOR	SI2304DS-T1
Q6605	8-729-044-58	TRANSISTOR	SI2304DS-T1
Q6606	8-729-907-00	TRANSISTOR	DTC114EU
Q6700	6-550-076-01	TRANSISTOR	MUN5213T1
Q6701	6-550-076-01	TRANSISTOR	MUN5213T1
Q6702	6-550-076-01	TRANSISTOR	MUN5213T1
Q6703	6-550-585-01	TRANSISTOR	2PC4081R-115
Q6705	6-550-585-01	TRANSISTOR	2PC4081R-115
Q6706	6-550-586-01	TRANSISTOR	2PA1576R-115
Q6707	6-550-586-01	TRANSISTOR	2PA1576R-115
Q6708	6-550-586-01	TRANSISTOR	2PA1576R-115
Q6709	6-550-076-01	TRANSISTOR	MUN5213T1
Q7000	6-550-222-01	TRANSISTOR	IRF7335D1-TR
Q7001	6-550-222-01	TRANSISTOR	IRF7335D1-TR

RESISTOR

R5506	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5507	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5508	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5509	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5510	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5511	1-216-864-11	SHORT CHIP			
R5512	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5513	1-216-809-11	METAL CHIP	100	5%	1/10W
R5514	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5515	1-216-864-11	SHORT CHIP			
R5516	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R5517	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5518	1-216-809-11	METAL CHIP	100	5%	1/10W
R5519	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5520	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R5521	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5523	1-216-836-11	METAL CHIP	18K	5%	1/10W
R5524	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5525	1-216-826-11	METAL CHIP	2.7K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5527	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5530	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5533	1-216-864-11	SHORT CHIP			
R5534	1-216-819-11	METAL CHIP	680	5%	1/10W
R5535	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5536	1-216-809-11	METAL CHIP	100	5%	1/10W
R5537	1-216-809-11	METAL CHIP	100	5%	1/10W
R5538	1-216-809-11	METAL CHIP	100	5%	1/10W
R5539	1-216-864-11	SHORT CHIP			
R5540	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5541	1-216-864-11	SHORT CHIP			
R5543	1-216-864-11	SHORT CHIP			
R5544	1-216-813-11	METAL CHIP	220	5%	1/10W
R5546	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5547	1-216-864-11	SHORT CHIP			
R5548	1-216-864-11	SHORT CHIP			
R5549	1-216-864-11	SHORT CHIP			
R5550	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5551	1-218-690-11	METAL CHIP	820	0.50%	1/10W
R5552	1-216-817-11	METAL CHIP	470	5%	1/10W
R5554	1-216-817-11	METAL CHIP	470	5%	1/10W
R5560	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5563	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5565	1-216-295-91	SHORT CHIP			
R5566	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5567	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5568	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5569	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5570	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5571	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5572	1-216-295-91	SHORT CHIP			
R5574	1-216-295-91	SHORT CHIP			
R5575	1-216-295-91	SHORT CHIP			
R5578	1-218-288-11	METAL CHIP	300	5%	1/10W
R5579	1-218-288-11	METAL CHIP	300	5%	1/10W
R5580	1-216-864-11	SHORT CHIP			
R5581	1-216-864-11	SHORT CHIP			
R5582	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5583	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R5584	1-216-295-91	SHORT CHIP			
R5585	1-216-295-91	SHORT CHIP			

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5588	1-216-295-91	SHORT CHIP			
R5590	1-216-295-91	SHORT CHIP			
R5591	1-216-295-91	SHORT CHIP			
R5593	1-216-819-11	METAL CHIP	680	5%	1/10W
R5598	1-216-295-91	SHORT CHIP			
R5599	1-216-295-91	SHORT CHIP			
R5602	1-216-295-91	SHORT CHIP			
R5603	1-216-295-91	SHORT CHIP			
R5606	1-216-847-11	METAL CHIP	150K	5%	1/10W
R6000	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6001	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6002	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R6003	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R6004	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6005	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6006	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6007	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6008	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6009	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6010	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6011	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6012	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6013	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6014	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6015	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6016	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6017	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6018	1-216-815-11	METAL CHIP	330	5%	1/10W
R6019	1-216-815-11	METAL CHIP	330	5%	1/10W
R6020	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6021	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6022	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6023	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6027	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6100	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6101	1-216-809-11	METAL CHIP	100	5%	1/10W
R6102	1-216-809-11	METAL CHIP	100	5%	1/10W
R6103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6106	1-218-741-11	METAL CHIP	110K	0.50%	1/10W
R6107	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6108	1-216-832-11	METAL CHIP	8.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6109	1-216-843-11	METAL CHIP	68K	5%	1/10W
R6110	1-216-836-11	METAL CHIP	18K	5%	1/10W
R6111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R6112	1-216-842-11	METAL CHIP	56K	5%	1/10W
R6113	1-216-834-11	METAL CHIP	12K	5%	1/10W
R6114	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6115	1-216-853-11	METAL CHIP	470K	5%	1/10W
R6116	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6117	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6119	1-216-864-11	SHORT CHIP			
R6121	1-216-864-11	SHORT CHIP			
R6123	1-216-864-11	SHORT CHIP			
R6124	1-216-864-11	SHORT CHIP			
R6126	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6127	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6131	1-216-853-11	METAL CHIP	470K	5%	1/10W
R6132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6300	1-216-834-11	METAL CHIP	12K	5%	1/10W
R6301	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6302	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R6304	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6305	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6306	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6307	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6308	1-216-809-11	METAL CHIP	100	5%	1/10W
R6309	1-216-809-11	METAL CHIP	100	5%	1/10W
R6310	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6311	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6312	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6313	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R6314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6316	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6317	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6319	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6322	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6323	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R6324	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6325	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6326	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6327	1-216-839-11	METAL CHIP	33K	5%	1/10W
R6328	1-216-864-11	SHORT CHIP			

AU

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6329	1-216-864-11	SHORT CHIP			
R6330	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6331	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6332	1-218-289-11	METAL CHIP	510	5%	1/10W
R6334	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6335	1-216-838-11	METAL CHIP	27K	5%	1/10W
R6337	1-218-289-11	METAL CHIP	510	5%	1/10W
R6338	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6340	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6343	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6344	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6345	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6346	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6504	1-216-864-11	SHORT CHIP			
R6505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6506	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6507	1-216-834-11	METAL CHIP	12K	5%	1/10W
R6508	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6509	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6510	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6511	1-216-864-11	SHORT CHIP			
R6512	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6514	1-216-864-11	SHORT CHIP			
R6515	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6516	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6518	1-216-798-11	METAL CHIP	12	5%	1/10W
R6519	1-216-798-11	METAL CHIP	12	5%	1/10W
R6520	1-216-295-91	SHORT CHIP			
R6521	1-216-295-91	SHORT CHIP			
R6522	1-216-798-11	METAL CHIP	12	5%	1/10W
R6523	1-216-798-11	METAL CHIP	12	5%	1/10W
R6524	1-216-295-91	SHORT CHIP			
R6525	1-216-798-11	METAL CHIP	12	5%	1/10W
R6526	1-216-798-11	METAL CHIP	12	5%	1/10W
R6527	1-216-798-11	METAL CHIP	12	5%	1/10W
R6528	1-216-798-11	METAL CHIP	12	5%	1/10W
R6529	1-216-798-11	METAL CHIP	12	5%	1/10W
R6534	1-216-798-11	METAL CHIP	12	5%	1/10W
R6535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6536	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6600	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6601	1-216-841-11	METAL CHIP	47K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6602	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6603	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6604	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6605	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6606	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6607	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6608	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6609	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6610	1-216-864-11	SHORT CHIP			
R6611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6612	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6613	1-216-864-11	SHORT CHIP			
R6614	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6615	1-218-747-11	METAL CHIP	200K	0.50%	1/10W
R6616	1-216-864-11	SHORT CHIP			
R6617	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6618	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6619	1-216-864-11	SHORT CHIP			
R6620	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6621	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6622	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6623	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6624	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6625	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6626	1-216-864-11	SHORT CHIP			
R6627	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6628	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6629	1-216-818-11	METAL CHIP	560	5%	1/10W
R6630	1-216-818-11	METAL CHIP	560	5%	1/10W
R6631	1-216-818-11	METAL CHIP	560	5%	1/10W
R6632	1-216-818-11	METAL CHIP	560	5%	1/10W
R6633	1-216-818-11	METAL CHIP	560	5%	1/10W
R6634	1-216-818-11	METAL CHIP	560	5%	1/10W
R6635	1-216-818-11	METAL CHIP	560	5%	1/10W
R6636	1-216-818-11	METAL CHIP	560	5%	1/10W
R6637	1-216-818-11	METAL CHIP	560	5%	1/10W
R6638	1-216-818-11	METAL CHIP	560	5%	1/10W
R6639	1-216-818-11	METAL CHIP	560	5%	1/10W
R6640	1-216-818-11	METAL CHIP	560	5%	1/10W
R6641	1-216-809-11	METAL CHIP	100	5%	1/10W
R6642	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6643	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6644	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6645	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6646	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6647	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6648	1-216-813-11	METAL CHIP	220	5%	1/10W
R6649	1-216-813-11	METAL CHIP	220	5%	1/10W
R6651	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6652	1-216-839-11	METAL CHIP	33K	5%	1/10W
R6653	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R6654	1-216-839-11	METAL CHIP	33K	5%	1/10W
R6655	1-216-836-11	METAL CHIP	18K	5%	1/10W
R6656	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6657	1-216-836-11	METAL CHIP	18K	5%	1/10W
R6658	1-216-864-11	SHORT CHIP			
R6659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6660	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6662	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R6663	1-216-834-11	METAL CHIP	12K	5%	1/10W
R6664	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R6665	1-216-834-11	METAL CHIP	12K	5%	1/10W
R6666	1-216-864-11	SHORT CHIP			
R6667	1-216-864-11	SHORT CHIP			
R6701	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6702	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6705	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6706	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W
R6707	1-218-861-11	METAL CHIP	3.9K	0.50%	1/10W
R6708	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6711	1-216-295-91	SHORT CHIP			
R6713	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6714	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6800	1-218-860-11	METAL CHIP	3.6K	0.50%	1/10W
R6801	1-218-895-11	METAL CHIP	100K	0.50%	1/10W
R6802	1-218-895-11	METAL CHIP	100K	0.50%	1/10W
R6803	1-218-893-11	METAL CHIP	82K	0.50%	1/10W
R6804	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R6805	1-216-809-11	METAL CHIP	100	5%	1/10W
R6806	1-216-842-11	METAL CHIP	56K	5%	1/10W
R6807	1-216-845-11	METAL CHIP	100K	5%	1/10W
R7000	1-216-295-91	SHORT CHIP			
R7001	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R7002	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R7003	1-216-841-11	METAL CHIP	47K	5%	1/10W
R7004	1-216-841-11	METAL CHIP	47K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7005	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7006	1-218-857-11	METAL CHIP	2.7K	0.50%	1/10W
R7007	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7008	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7009	1-218-857-11	METAL CHIP	2.7K	0.50%	1/10W
R7010	1-218-835-11	METAL CHIP	330	0.50%	1/10W
R7011	1-218-856-11	METAL CHIP	2.4K	0.50%	1/10W
R7012	1-216-864-11	SHORT CHIP			
R7013	1-218-835-11	METAL CHIP	330	0.50%	1/10W
R7014	1-218-881-11	METAL CHIP	27K	0.50%	1/10W
R7015	1-218-883-11	METAL CHIP	33K	0.50%	1/10W
R7016	1-216-841-11	METAL CHIP	47K	5%	1/10W
R7017	1-216-864-11	SHORT CHIP			
R7018	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R7019	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R7020	1-218-860-11	METAL CHIP	3.6K	0.50%	1/10W
R7021	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R7022	1-216-295-91	SHORT CHIP			
R7023	1-216-295-91	SHORT CHIP			
R7026	1-216-799-11	METAL CHIP	15	5%	1/10W
R7027	1-216-799-11	METAL CHIP	15	5%	1/10W
R7029	1-216-295-91	SHORT CHIP			
R7030	1-216-295-91	SHORT CHIP			
R7031	1-216-295-91	SHORT CHIP			
R7032	1-216-295-91	SHORT CHIP			
R7033	1-216-295-91	SHORT CHIP			
R7034	1-216-295-91	SHORT CHIP			
R7041	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R7042	1-218-859-11	METAL CHIP	3.3K	0.50%	1/10W

TRANSFORMER

T5500	1-437-982-11	SOUND INPUT TRANSFORMER

THERMISTOR

TH6800	1-804-503-21	THERMISTOR

TUNER

TU5500	8-598-593-60	TUNER, FSS BTF-WA421

AU P

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	VARISTOR				
VD5500	1-803-974-21	VARISTOR, CHIP	(1608)		
VD5501	1-803-974-21	VARISTOR, CHIP	(1608)		
VD6600	1-801-925-21	VARISTOR, CHIP	(1608)		
VD6601	1-801-925-21	VARISTOR, CHIP	(1608)		
VD6602	1-801-925-21	VARISTOR, CHIP	(1608)		

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*	**A-1052-776-B**	**P BOARD, MOUNTED**			
	CAPACITOR				
C5000	1-126-193-11	ELECT CHIP	1µF	20%	50V
C5001	1-126-193-11	ELECT CHIP	1µF	20%	50V
C5002	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5003	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5004	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5005	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5006	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5007	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5008	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5009	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5010	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5011	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5012	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5013	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5014	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5015	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5016	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5017	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5018	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5019	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5020	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C5021	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C5022	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5023	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5024	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5025	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5026	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5027	1-126-396-11	ELECT CHIP	47µF	20%	16V
C5028	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5100	1-100-588-21	ELECT CHIP	1000µF	20%	6.3V
C5102	1-137-897-21	ELECT CHIP	150µF	20%	4V
C5103	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5104	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5105	1-100-118-21	ELECT CHIP	82µF	20%	16V
C5107	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5108	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5200	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5201	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5202	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5203	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5204	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5205	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5206	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5207	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5208	1-128-993-21	ELECT CHIP	22µF	20%	10V
C5209	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5210	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5211	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C5212	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5213	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5214	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5215	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5216	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5217	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5218	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5219	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5220	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5221	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C5222	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C5223	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C5224	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C5225	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5226	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5227	1-128-993-21	ELECT CHIP	22µF	20%	10V
C5228	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5229	1-126-412-11	ELECT CHIP	220µF	20%	4V
C5230	1-126-412-11	ELECT CHIP	220µF	20%	4V
C5231	1-126-412-11	ELECT CHIP	220µF	20%	4V
C5232	1-128-993-21	ELECT CHIP	22µF	20%	10V
C5233	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5234	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5300	1-124-779-00	ELECT CHIP	10µF	20%	16V
C5301	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5302	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C5303	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
	C5304	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
			CONNECTOR			
*	CN5000	1-818-400-11	HDMI CONNECTOR			
	CN5002	1-794-519-21	PIN, CONNECTOR (PC BOARD) 14P			
			DIODE			
	D5001	8-719-977-28	DIODE	DTZ10B		
	D5003	8-719-977-28	DIODE	DTZ10B		
	D5006	8-719-404-50	DIODE	MA111-TX		
	D5007	8-719-404-50	DIODE	MA111-TX		
	D5100	6-500-294-01	DIODE	PTZ-TE25-3.9B		
	D5101	8-719-210-39	DIODE	EC10QS-04		
			FERRITE BEAD			
	FB5000	1-414-235-22	FERRITE	0µH		
	FB5001	1-414-235-22	FERRITE	0µH		
	FB5002	1-414-235-22	FERRITE	0µH		
	FB5003	1-414-235-22	FERRITE	0µH		
	FB5004	1-414-445-11	FERRITE	0µH		
	FB5200	1-414-235-22	FERRITE	0µH		
	FB5201	1-414-235-22	FERRITE	0µH		
	FB5202	1-414-235-22	FERRITE	0µH		
	FB5203	1-414-235-22	FERRITE	0µH		
			FILTER			
*	FL5000	1-813-308-11	COMMON MODE CHOKE			
*	FL5001	1-813-308-11	COMMON MODE CHOKE			
*	FL5002	1-813-308-11	COMMON MODE CHOKE			
*	FL5003	1-813-308-11	COMMON MODE CHOKE			
	FL5004	1-234-177-21	FERRITE	0µH		
			IC			
	IC5000	6-704-001-01	IC	BR24L02F-WE2		
	IC5001	6-704-499-01	IC	SII9993CTG100		
	IC5100	6-704-407-01	IC	PQ1CZ41H2ZPH		
	IC5101	8-759-533-85	IC	L88M05T-FA-TL		
	IC5200	6-704-819-01	IC	CS4335-KSZR		
	IC5201	6-706-257-01	IC	FMS6418AM16X		
	IC5202	8-759-331-71	IC	NJM4558E(TE2)		

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	IC5203	6-703-042-01	IC	CD4052BNSR		
	IC5301	6-804-248-01	IC	HD64F3694FXV-DA4		
			JACK			
	J5000	1-794-623-21	JACK, PIN 2P			
			COIL			
	L5001	1-412-026-11	INDUCTOR	1µH		
	L5100	1-456-046-21	INDUCTOR	10µH		
	L5101	1-400-303-21	INDUCTOR	68µH		
			IC LINK			
	PS5100	1-576-612-21	FUSE	1A	32V	
	PS5101	1-576-647-11	FUSE	0.2A	50V	
			TRANSISTOR			
	Q5000	8-729-421-22	TRANSISTOR	UN2211		
	Q5001	6-550-014-01	TRANSISTOR	SSM6N15FU(TE85R)		
	Q5002	8-729-421-22	TRANSISTOR	UN2211		
	Q5200	8-729-027-62	TRANSISTOR	DTC144WKA-T146		
	Q5201	8-729-024-88	TRANSISTOR	MUN2212T1		
	Q5202	8-729-024-88	TRANSISTOR	MUN2212T1		
	Q5204	8-729-421-22	TRANSISTOR	UN2211		
	Q5205	8-729-421-22	TRANSISTOR	UN2211		
	Q5300	8-729-027-62	TRANSISTOR	DTC144WKA-T146		
			RESISTOR			
	R5000	1-218-644-11	METAL CHIP	10	0.50%	1/10W
	R5001	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R5002	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5003	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R5005	1-216-838-11	METAL CHIP	27K	5%	1/10W
	R5006	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5009	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
	R5010	1-216-809-11	METAL CHIP	100	5%	1/10W
	R5011	1-216-809-11	METAL CHIP	100	5%	1/10W
	R5012	1-216-809-11	METAL CHIP	100	5%	1/10W
	R5013	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
	R5015	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
	R5017	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5019	1-216-816-11	METAL CHIP	390	5%	1/10W
R5020	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5021	1-218-854-11	METAL CHIP	2K	0.50%	1/10W
R5022	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R5023	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5024	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R5025	1-216-803-11	METAL CHIP	33	5%	1/10W
R5026	1-216-803-11	METAL CHIP	33	5%	1/10W
R5027	1-216-803-11	METAL CHIP	33	5%	1/10W
R5103	1-218-701-11	METAL CHIP	2.4K	0.50%	1/10W
R5104	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R5105	1-216-864-11	SHORT CHIP			
R5106	1-216-864-11	SHORT CHIP			
R5201	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5202	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5204	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5205	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5206	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5207	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5209	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5212	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5213	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5214	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5215	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5216	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5217	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5218	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5219	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5222	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5223	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5225	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5227	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5231	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R5232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5233	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5234	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5235	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5236	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5237	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R5238	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5239	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R5240	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5241	1-218-665-11	METAL CHIP	75	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5242	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5243	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R5244	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5245	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R5247	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5249	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5250	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5251	1-216-809-11	METAL CHIP	100	5%	1/10W
R5252	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5253	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5254	1-216-817-11	METAL CHIP	470	5%	1/10W
R5255	1-216-817-11	METAL CHIP	470	5%	1/10W
R5258	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5259	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5260	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5262	1-216-809-11	METAL CHIP	100	5%	1/10W
R5265	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5266	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5303	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5304	1-216-809-11	METAL CHIP	100	5%	1/10W
R5305	1-216-809-11	METAL CHIP	100	5%	1/10W
R5306	1-216-809-11	METAL CHIP	100	5%	1/10W
R5307	1-216-809-11	METAL CHIP	100	5%	1/10W
R5308	1-216-809-11	METAL CHIP	100	5%	1/10W
R5309	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5310	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5311	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5312	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5313	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5315	1-216-809-11	METAL CHIP	100	5%	1/10W
R5317	1-216-809-11	METAL CHIP	100	5%	1/10W
R5320	1-216-809-11	METAL CHIP	100	5%	1/10W
R5321	1-216-809-11	METAL CHIP	100	5%	1/10W
R5322	1-216-809-11	METAL CHIP	100	5%	1/10W
R5323	1-216-809-11	METAL CHIP	100	5%	1/10W
R5325	1-216-809-11	METAL CHIP	100	5%	1/10W
R5326	1-216-809-11	METAL CHIP	100	5%	1/10W

P H2 H1

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR BRIDGE				
RB5000	1-233-574-11	RES, CHIP NETWORK 10 (3216)			
RB5001	1-233-574-11	RES, CHIP NETWORK 10 (3216)			
RB5002	1-234-524-21	RES, CHIP NETWORK 33 (3216)			
RB5300	1-236-908-11	NETWORK RESISTOR(CHIP)	10K		
	VARISTOR				
VD5000	1-805-043-11	ABSORBER, CHIP SURGE			
VD5001	1-805-043-11	ABSORBER, CHIP SURGE			
VD5002	1-805-043-11	ABSORBER, CHIP SURGE			
VD5003	1-805-043-11	ABSORBER, CHIP SURGE			
VD5004	1-805-043-11	ABSORBER, CHIP SURGE			
VD5005	1-805-043-11	ABSORBER, CHIP SURGE			
VD5006	1-805-043-11	ABSORBER, CHIP SURGE			
VD5007	1-805-043-11	ABSORBER, CHIP SURGE			
VD5008	1-805-043-11	ABSORBER, CHIP SURGE			
VD5009	1-805-043-11	ABSORBER, CHIP SURGE			
	CRYSTAL				
X5300	1-767-984-21	VIBRATOR, CRYSTAL			

H2

*	**A-1052-778-A**	**H2 BOARD, MOUNTED**				
	CAPACITOR					
C9101	1-162-945-11	CERAMIC CHIP	22pF	5%	50V	
C9102	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	
C9103	1-117-137-11	ELECT CHIP	33µF	20%	10V	
C9104	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V	
C9105	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V	
	CONNECTOR					
* CN9101	1-766-376-11	PIN, CONNECTOR (1.5MM)(SMD) 9P				
	DIODE					
D9101	8-719-064-07	DIODE	SML-310LTT86			
D9102	6-500-861-01	DIODE	SML-020MVT-T86			
D9103	8-719-421-59	DIODE	MA3130WA-TX			
D9104	8-719-421-59	DIODE	MA3130WA-TX			
D9105	8-719-421-59	DIODE	MA3130WA-TX			
D9106	8-719-421-59	DIODE	MA3130WA-TX			
D9107	6-500-530-01	DIODE	SML-311BBTT86			
D9108	8-719-421-59	DIODE	MA3130WA-TX			
	IC					
IC9101	6-600-117-01	IC	GP1UM27SRK			
	TRANSISTOR					
Q9101	8-729-028-98	TRANSISTOR	DTC114WUA-T106			
Q9102	8-729-028-98	TRANSISTOR	DTC114WUA-T106			
Q9103	8-729-028-98	TRANSISTOR	DTC114WUA-T106			
Q9104	8-729-028-98	TRANSISTOR	DTC114WUA-T106			
	RESISTOR					
R9101	1-216-815-11	METAL CHIP	330	5%	1/10W	
R9103	1-216-820-11	METAL CHIP	820	5%	1/10W	
R9107	1-216-817-11	METAL CHIP	470	5%	1/10W	
R9108	1-216-805-11	METAL CHIP	47	5%	1/10W	
R9109	1-216-818-11	METAL CHIP	560	5%	1/10W	
R9110	1-216-820-11	METAL CHIP	820	5%	1/10W	
R9111	1-216-295-91	SHORT CHIP				
	SWITCH					
S9101	1-554-419-00	SWITCH, PUSH (1 KEY)				

H1

*	**A-1052-780-A**	**H1 BOARD, MOUNTED**				
	CAPACITOR					
C9002	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	
	CONNECTOR					
* CN9001	1-580-055-21	PIN, CONNECTOR (SMD) 2P				
	DIODE					
D9001	8-719-069-60	DIODE	UDZSTE-179.1B			

H1 H3

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R9001	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R9002	1-218-457-11	METAL CHIP	910	5%	1/10W
R9003	1-216-817-11	METAL CHIP	470	5%	1/10W
R9004	1-216-813-11	METAL CHIP	220	5%	1/10W
	SWITCH				
S9001	1-572-595-11	SWITCH, TACTIL (REFLOW TYPE)			
S9002	1-572-595-11	SWITCH, TACTIL (REFLOW TYPE)			
S9003	1-572-595-11	SWITCH, TACTIL (REFLOW TYPE)			
S9004	1-572-595-11	SWITCH, TACTIL (REFLOW TYPE)			
S9005	1-572-595-11	SWITCH, TACTIL (REFLOW TYPE)			

H3

*	**A-1071-720-A**	**H3 BOARD, MOUNTED**			
	1-910-003-18	CONNECTOR ASSY	1P	(H3)	
	CAPACITOR				
C9201	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9202	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9203	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9204	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9205	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9206	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
C9207	1-115-156-11	CERAMIC CHIP	1µF		10V
C9208	1-115-156-11	CERAMIC CHIP	1µF		10V
C9209	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C9210	1-115-566-11	CERAMIC CHIP	4.7µF	10%	10V
C9212	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9213	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9214	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C9215	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
	CONNECTOR				
CN9201	1-695-209-21	PIN, CONNECTOR (PC BOARD) 15P			

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	DIODE				
D9201	8-719-069-60	DIODE	UDZSTE-179.1B		
D9204	8-719-069-60	DIODE	UDZSTE-179.1B		
D9206	8-719-069-60	DIODE	UDZSTE-179.1B		
D9207	8-719-062-19	DIODE	MA3200WA-TX		
D9208	8-719-062-19	DIODE	MA3200WA-TX		
D9209	8-719-062-19	DIODE	MA3200WA-TX		
	JACK				
J9201	1-770-328-21	JACK, PIN 3P			
J9202	1-568-267-11	JACK			
J9203	1-770-860-11	CONNECTOR, S TERMINAL			
	RESISTOR				
R9201	1-216-864-11	SHORT CHIP			
R9202	1-216-815-11	METAL CHIP	330	5%	1/10W
R9203	1-216-864-11	SHORT CHIP			
R9204	1-216-813-11	METAL CHIP	220	5%	1/10W
R9205	1-216-813-11	METAL CHIP	220	5%	1/10W
R9206	1-216-815-11	METAL CHIP	330	5%	1/10W
R9207	1-216-813-11	METAL CHIP	220	5%	1/10W
R9208	1-216-813-11	METAL CHIP	220	5%	1/10W
R9209	1-216-813-11	METAL CHIP	220	5%	1/10W
R9210	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9211	1-216-813-11	METAL CHIP	220	5%	1/10W
R9212	1-216-809-11	METAL CHIP	100	5%	1/10W
R9213	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9214	1-216-813-11	METAL CHIP	220	5%	1/10W
R9215	1-216-813-11	METAL CHIP	220	5%	1/10W
R9216	1-216-813-11	METAL CHIP	220	5%	1/10W
R9217	1-216-809-11	METAL CHIP	100	5%	1/10W
R9218	1-216-864-11	SHORT CHIP			
R9222	1-216-864-11	SHORT CHIP			
R9223	1-216-809-11	METAL CHIP	100	5%	1/10W
R9224	1-216-797-11	METAL CHIP	10	5%	1/10W
R9225	1-216-797-11	METAL CHIP	10	5%	1/10W
R9226	1-216-809-11	METAL CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES
	VARISTOR		
VD9201	1-801-925-21	VARISTOR, CHIP	(1608)
VD9202	1-801-925-21	VARISTOR, CHIP	(1608)
VD9203	1-801-925-21	VARISTOR, CHIP	(1608)
	MISCELLANEOUS		
*	4-662-796-01	CLIP, COACHING	
	1-910-001-55	LVDS CONNECTOR ASSY 31P	
	1-477-718-11	SENSOR, TEMPERATURE	
	2-148-126-01	SCREW (+B), FIXED	
	3-704-359-01	SCREW (M3X10), SW (+) P	
	7-682-948-09	SCREW +PSW 3X8	
	7-682-968-01	SCREW +PSW 4X30	
	REMOTE COMMANDER		
	1-478-772-12	REMOTE COMMANDER (RM-Y1003)	
☛	3-072-138-01	COVER, BATTERY (RM-Y1003)	

REF. NO.	PART NO.	DESCRIPTION	VALUES

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

English
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SERVICE MANUAL AT-2 CHASSIS

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Nita Wardlaw at nita.wardlaw@am.sony.com.

SONY

2-178-457-**11** (1)

WEGA

Flat Panel Color TV
Operating Instructions

KE-42M1

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Owner’s Record

The model and serial numbers are located at the rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

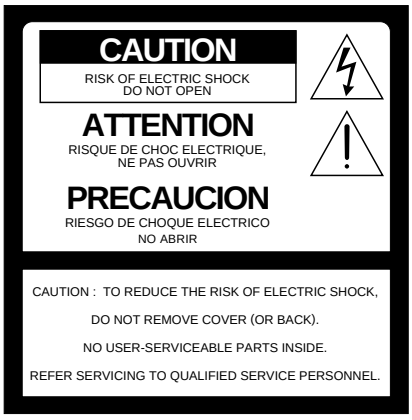
Serial No. _____

Contacting Sony

If, after reading the following instructions, you have additional questions related to the use of your Sony TV, please call one of the following numbers.
Customers in the continental United States contact the Direct Response Center at:
1-800-222-SONY (7669)
Customers in Canada contact the Customer Relations Center at:
1-877-899-SONY (7669)

WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with ß15.119 of the FCC rules.

Note to CATV System Installer

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antennas.
- ☐ Increase the separation between the equipment and receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/ TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Safety

- ☐ Operate the TV only on 120 V AC.
- ☐ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- ☐ If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- ☐ If you will not be using the TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- ☐ For details concerning safety precautions, see “Important Safeguards” on page 4.

Important Notice

- ☐ When used at an altitude of greater than 1,900m or 6,248feet (air pressure less than 800hPa), this Plasma Display Panel may generate a low buzzing sound as a result of the difference between the interior and exterior air pressure of the panels. This is not considered a defect and is not covered under by the Limited Warranty.

Installing

- ☐ To prevent internal heat buildup, do not block the ventilation openings.
- ☐ Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ☐ Avoid operating the TV at temperatures below 5°C (41°F).
- ☐ If the TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color due to moisture condensation. In this case, please wait a few hours to let the moisture evaporate before turning on the TV.
- ☐ To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the TV in a room where the floor and walls are not of a reflective material.

CAUTION

Bright, stationary images, such as TV station logos, displayed on your TV can become permanently imprinted onto the screen. Theses types of imprints are known as “Image Retention.” Please take the following steps to reduce the risk of causing image retention:

View a variety of program sources or programming material. Changing the program material viewed reduces the possibility that a single image will become imprinted on the TV screen.

When using video games, computers, and similar products with your TV, or viewing a TV station whose logo always stays on the screen, keep the “Brightness” and “Picture” functions at low settings. (See pages 59-60 for instructions on adjusting picture quality.)

This TV was designed primarily for viewing TV broadcasts in wide screen mode (16:9 aspect ratio). Therefore, when viewing conventional (4:3) aspect ratio TV programs, select “Wide Zoom” or “Full” in the Wide Screen Mode, or “4:3 Default” in the Screen menu (see pages 44-47).

IMAGE RETENTION IS NOT COVERED BY YOUR WARRANTY.

(Continued)

CAUTION

Use the following SONY appliance(s) only with the following WALL-MOUNT BRACKET. Use with other WALL-MOUNT BRACKET may cause instability and result in possible injury.

SONY APPLIANCE MODEL NO.
KE-42M1

SONY WALL-MOUNT BRACKET MODEL NO.
SU-PW2

To Customers

Sufficient expertise is required for installing the specified product. Be sure to subcontract the installation to Sony dealers or contractors and pay adequate attention to safety during the installation.

As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.
ENERGY STAR® is a U.S. registered mark.

Trademark Information

TruSurround, TruBass, SRS and the (●)® symbol are trademarks of SRS Labs, Inc. TruSurround and TruBass technologies are incorporated under license from SRS Labs, Inc.

Licensed by BBE Sound, Inc. under USP4638258, 4482866. “BBE” and BBE symbol are trademarks of BBE Sound, Inc.

This TV incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Wega, Steady Sound, Digital Reality Creation, Caption Vision, and CineMotion are registered trademarks of Sony Corporation.

Important Safeguards

Before using your TV, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the unit or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the unit.

Use

Power Sources

This unit should be operated only from the type of power source indicated on the serial/model plate.

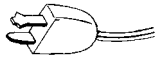
If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

Grounding or Polarization

This unit is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the unit with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug.



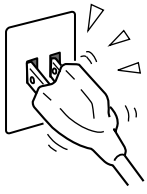
If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

Wall outlet

Do not use a poor fitting outlet.

Insert the plug fully into the outlet. If it is loose, it may cause arcing and result in fire.

Contact your electrician to have the outlet changed.



Wiring

For your safety, unplug the AC power cord when wiring cables.

Electric Shock

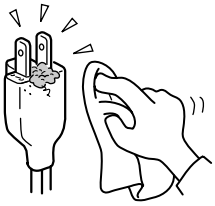
Do not touch the AC power cord or the unit with a wet hand.

If you plug/unplug the AC power cord from the unit with a wet hand, it may cause electric shock.

Cleaning

Clean the AC power plug regularly.

If the plug is covered with dust and it picks up moisture, its insulation may deteriorate and result in fire. Unplug the AC power plug and clean it regularly.



For the unit with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.

Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Always turn the unit off when it is not being used. When the unit is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.

If a snapping or popping sound from a TV unit is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.

AC power cord

If you damage the AC power cord, it may result in fire or electric shock.

- ☐ Do not pinch, bend, or twist the cord excessively. The core lines may be bared and cut, and cause short-circuit, resulting in fire or electric shock.
- ☐ Do not convert or damage the AC power cord or display interface cable.
- ☐ Do not put anything heavy on the AC power cord. Do not pull the AC power cord.
- ☐ Keep the AC power cord away from heat sources.
- ☐ Be sure to grasp the plug when disconnecting the AC power cord.

If the AC power cord is damaged, stop using it and ask your dealer or Sony service center to exchange it.

Object and Liquid Entry

Never push objects of any kind into the unit through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

Ventilation holes

Do not insert anything in the ventilation holes. If metal or something flammable enters, it may result in fire or electric shock.

Cleaning

Unplug the AC power cord when cleaning this unit. If not, it may result in electric shock.
Clean the cabinet of the TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.

If the picture becomes dark after using the TV for a long period of time, it may be necessary to clean the inside of the TV. Consult qualified service personnel.

Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.

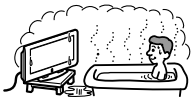
Medical institution

Do not place this unit in a place where medical equipment is in use.

It may cause malfunction of medical instruments.

Moisture and flammable objects

- ☐ Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc. It may result in fire or electric shock.



- ☐ Do not let this unit get wet. Never spill liquid of any kind on the unit. If any liquid or solid object does fall through, do not operate the unit. It may result in electric shock or damage to the unit. Have it checked immediately by qualified personnel.

- ☐ To prevent fire, keep inflammable objects or naked lights (e.g. candles) away from the unit.

Accessories

Do not place the unit on an unstable cart, stand, table or shelf. The unit may fall, causing serious injury to a child or an adult and serious damage to the unit. Use only a cart or stand recommended by Sony for the specific model of TV. No part of the TV unit should overhang any edge of the TV cart or stand; any overhanging edge is a safety hazard. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Disposal of used batteries

To preserve our environment, dispose the used batteries according to your local laws or regulations.

Damage requiring service

If the surface of the TV cracks, do not touch it until you unplug the AC power cord.

Otherwise electric shock may result.

Broken pieces

Do not throw anything at the unit.

The screen glass may break by the impact and cause serious injury.

Cable wiring

Take care not to catch your feet on the cables. It may damage the unit.

Heat

Do not touch the surface of the TV.

It remains hot, even for some time after the TV is turned off.

Volume adjustment

Adjust the volume so as not to trouble your neighbours. Sound carries very easily at night time. Therefore, closing the windows or using headphones is suggested.

When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

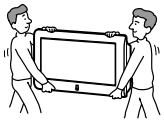
(Continued)

Installation and moving

Carry the TV in the specified manner

Carrying the TV requires at least two people.

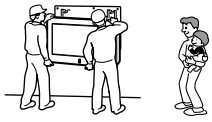
If you carry the TV in a manner other than that specified and without the specified number of persons, it may drop and a serious injury may result. Be sure to follow the instructions given below.



- ☐ Carry the TV with the specified number of persons.
- ☐ Carry the TV holding the upper and bottom frames of the TV as illustrated.
- ☐ Do not pick up the unit in the middle (where drop-down panel is located) or they may damage the drop-down panel.
- ☐ Hold the TV securely when carrying it.
- ☐ As the glass surface of the TV has a special coating, be careful to avoid touching the glass surface as far as possible.
- ☐ When transporting, do not subject the unit to shocks or vibration, or excessive force.

Installation

When installing or removing the TV on the wall, be sure to use qualified contractors. Wall mount installation requires the use of a wall-mount bracket. If the TV is installed or removed from the wall by a person other than a qualified contractor, the unit may fall and cause serious injury if the unit is not installed securely.



Optional accessories

Observe the following when installing the TV using a stand or wall-mount bracket. If the TV is not secured properly, it may fall and cause injury.

- ☐ Be sure to follow the operating instructions supplied with your stand or wall-mount bracket when installing the unit.
- ☐ Be sure to attach the brackets supplied with your stand or wall-mount bracket.

Protruding location

Do not install the TV in protruding locations. If you install the unit in the following locations, injury may result.

- ☐ Do not install the unit in a location where the unit protrudes, such as pillars.
- ☐ Do not install the unit in a location that may cause facial injury.

Oils

Do not install this unit in restaurants where oily vapors occur. Dust absorbing oil may enter into the unit and damage the unit.

Corrosion

If you use this unit near the seashore, salt may corrode metal parts of the unit and cause internal damage or fire.

It may also shorten the life of the unit.

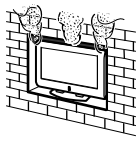
Ventilation

The slots and openings in the TV are provided for necessary ventilation. To ensure reliable operation of the unit, and to protect it from overheating, these slots and openings must never be blocked or covered.

Unless proper ventilation is provided, the unit may gather dust and get dirty. For proper ventilation, Observe the following:

- ☐ Do not install the unit turned backward or sideways.
- ☐ Do not install the unit turned over or upside down.
- ☐ Never cover the slots and openings with a cloth or other materials.

- ☐ Never block the slots and openings by placing the unit on a bed, sofa, rug or other similar surface.

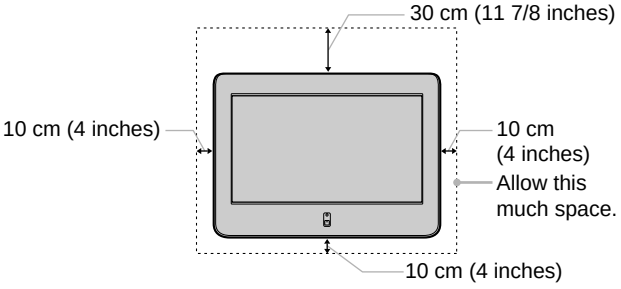


- ☐ Never place the unit in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

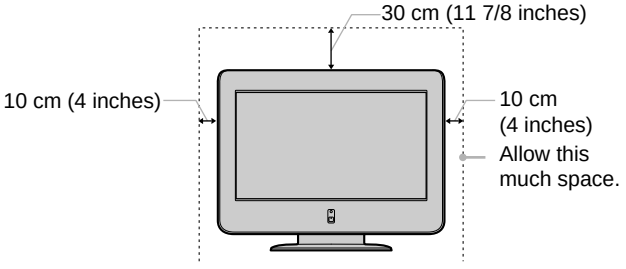
- ☐ Do not place the unit near or over a radiator or heat register, or where it is exposed to direct sunlight.

Leave some space around the unit. Otherwise, adequate air-circulation may be blocked causing overheating and cause fire or damage the unit.

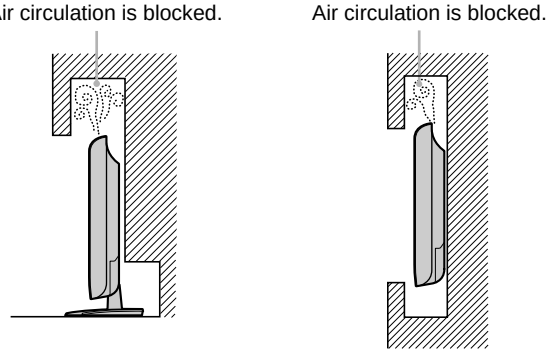
When installing the unit on the wall



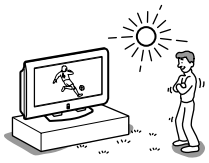
When installing the unit using a stand



Never install the unit as follows:



Outdoor use



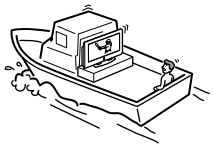
Do not install this unit outdoors. If the unit is exposed to rain, it may result in fire or electric shock. If the unit is exposed to direct sunlight, the unit may heat up and it may damage the unit.

Vehicle and ceiling

Do not install this unit in a vehicle or hung from the ceiling.

Bumping of the vehicle may cause the unit to fall down and cause injury.

Ship and vessel



Do not install this unit in a ship or vessel. If the unit is exposed to seawater, it may cause fire or damage the unit.

AC power cord

Unplug the AC power cord when moving the unit.

Do not move the unit with the AC power cord plugged in. It may damage the AC power cord and result in fire or electric shock.

Fall

Do not hang anything on the unit.

The unit may fall from the stand or wall-mount bracket, causing damage or serious injury.

Power-Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the unit where the power cord is subject to wear or abuse.

Antennas

Outdoor Antenna Grounding

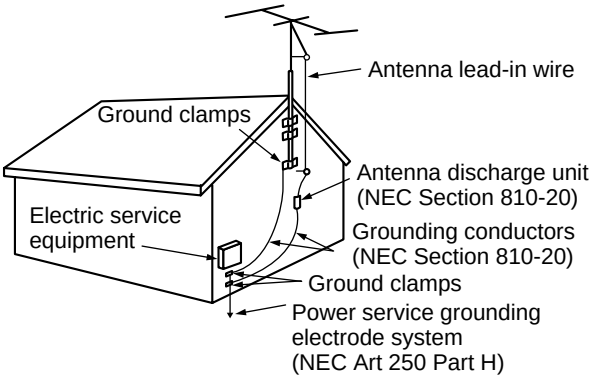
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the National Electrical Code, ANSI/NFPA 70



NEC: National Electrical Code

Lightning

For added protection for this TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

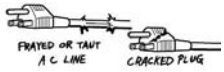
(Continued)

Service

Damage Requiring Service

Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

☐ When the power cord or plug is damaged or frayed.



☐ If liquid has been spilled into the unit.

☐ If the unit has been exposed to rain or water.

☐ If the unit has been subject to excessive shock by being dropped, or the cabinet has been damaged.

☐ If the unit does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to normal operation.

☐ When the unit exhibits a distinct change in performance, it indicates a need for service.

Servicing

Do not attempt to service the unit yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he/she has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check

Upon completion of any service or repairs to the unit, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the unit is in safe operating condition, and to so certify. When the unit reaches the end of its useful life, ask a qualified service technician to dispose of the unit.

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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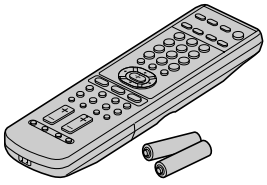
Installing the TV

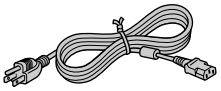
Unpacking

When you unpack this unit, make sure it includes the following:

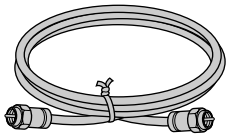
Remote control (1) and size AA batteries (2)



AC power cord (1)



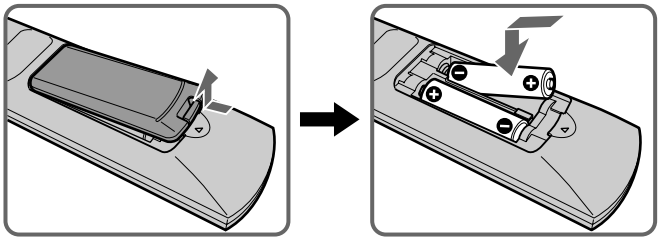
75-ohm coaxial cable (1)



Clamp Screws (2)
Plug Holder for AC Power Cord (1)
Cleaning Cloth (1)
Operating Instructions (1)
Quick Setup Guide (1)
Warranty Card (1)

Overview of the Remote Control

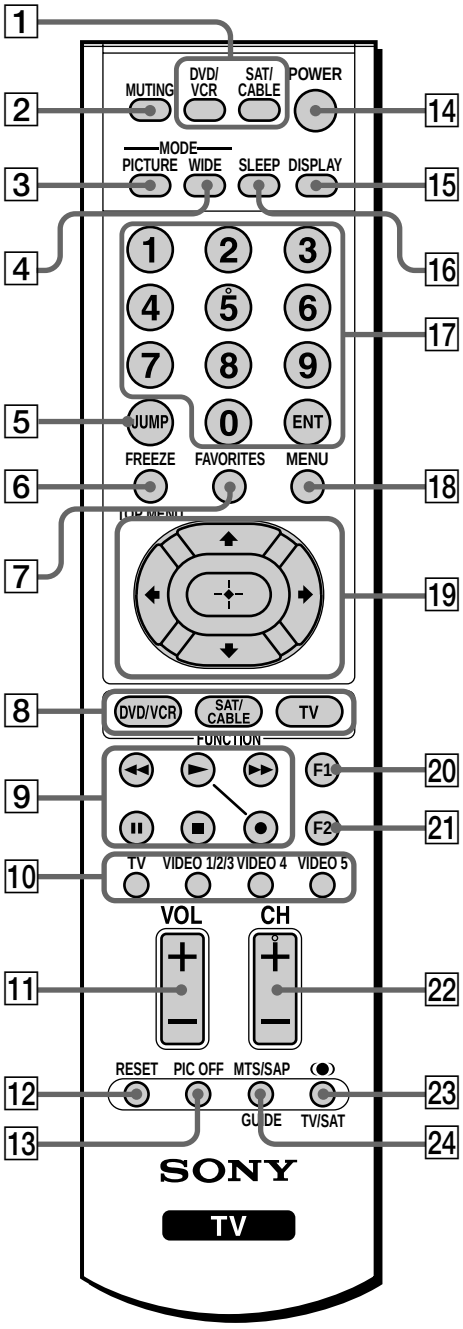
Insert two size AA batteries (supplied) by matching the ⊕ and ⊖ on the batteries to the diagram inside the remote control's battery compartment.



Notes

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- The supplied remote control can be programmed to operate most video equipment (see "Programming the Remote Control" on page 14).

Remote Control Descriptions



Tip

The MTS/SAP button, the number 5 button and the CH + button have a tactile dot.

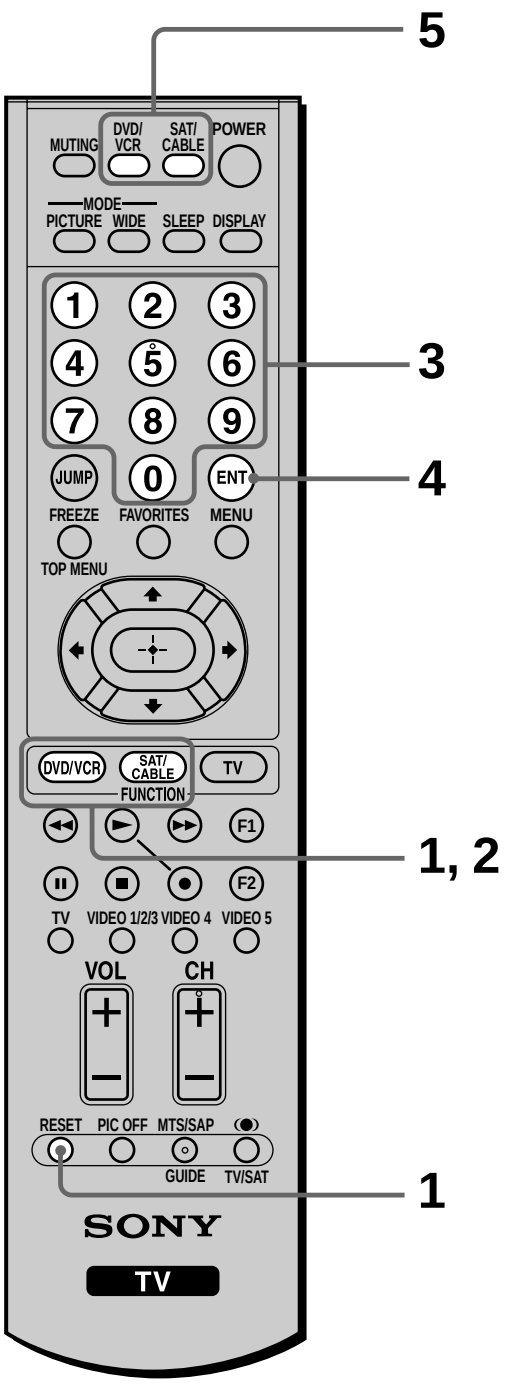
Use the tactile dot as a reference when operating the TV.

Button	Description
1 DVD/VCR, SAT/ CABLE Power Buttons	Press to turn on and off the equipment you have programmed into the remote control. For details, see “Programming the Remote Control” on page 14. **DVD/VCR:** Press to turn on and off the video equipment. **SAT/CABLE:** Press to turn on and off the satellite receiver or cable box.
2 MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
3 PICTURE	Press repeatedly to cycle through the available video picture modes: Vivid, Standard, Pro. The video picture modes can be also accessed in the Video menu. For details, see “Adjusting the Picture Quality” on page 59.
4 WIDE	Press repeatedly to step through the Wide Screen Mode settings: Wide Zoom, Normal, Full, Zoom. The Wide Screen Mode settings can be also accessed in the Screen menu. For details, see pages 44 and 46.
5 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
6 FREEZE	Press to freeze the picture. Press again to restore the picture. For details, see “Using the Freeze Function” on page 48.
When FUNCTION is switched on DVD/VCR	
TOP MENU	Press to display the top menu of your DVD/VCR.
7 FAVORITES	Press to display the Favorite Channels list. For details, see page 54.
8 FUNCTION Buttons	Press to have the remote control operate the equipment you want. For details, see “Programming the Remote Control” on page 14.
9 DVD/VCR Operating Buttons	When FUNCTION is switched on DVD/VCR, these buttons operate the video equipment you have programmed into the remote control. For details, see “Using your Remote Control with Other Equipment” on page 16.
	◀◀ Rewind
	► Play
	▶▶ Fast forward
	❚❚ Pause
	■ Stop
	● Record

Button	Description
10 Input Select Buttons	Press to select the video equipment connected to the TV's video inputs. **TV**: Press to select the TV to watch the TV programs. **VIDEO 1/2/3**: Press repeatedly to cycle through the video equipment connected to the VIDEO 1 IN, the VIDEO 2 IN and the VIDEO 3 IN. If the video label is selected as "Skip," the selected input will be skipped from the cycle. **VIDEO 4**: Press to select the video equipment connected to the HD/DVD 4 IN. **VIDEO 5**: Press to select the video equipment connected to the HDMI 5 IN.
11 VOL +/–	Press to adjust the volume.
12 RESET	Press to reset the settings to the factory defaults. See pages 60 and 62. Also used to clear Channel Label.
13 PIC OFF	Press to turn off the TV screen. For details, see "Using the Picture off Function" on page 48.
14 POWER	Press to turn on and off the TV.
15 DISPLAY	Press once to display the current channel number/channel label and the Wide Screen Mode or the current video input number/video label and the Wide Screen Mode. When the display is turned on, the current channel number/ channel label or video input number/ video label remains displayed. Press it again to turn the display off. If set, the current channel number will display for 10 seconds.
16 SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60 or 90) that you want the TV to remain on before shutting off. To cancel Sleep Timer, press SLEEP repeatedly until Sleep Off appears.
17 0 - 9 ENT	Press 0 - 9 to select a channel; the channel changes after 2 seconds. Press ENT to change channels immediately.
18 MENU	Press to display the menu. Press again to exit from the menu. For details, see page 38.
19 ↑/↓/←/→ ⊕	Press ↑/↓/←/→ to move the on-screen cursor. To select an item, press ⊕.
20 F1	Press to select the function of your video equipment which is programmed on the TV's remote control.
21 F2	Press to select the function of your video equipment which is programmed on the TV's remote control.
22 CH +/–	Press to scan through channels. To scan quickly through channels, press and hold down either CH.

Button	Description
23 (●)	Press to select the sound effect modes: TruSurround, Off. The sound effect modes can be also accessed in the Audio menu. For more details, see "Selecting the Effect Mode" on page 43.
	When FUNCTION is switched on SAT/CABLE
TV/SAT	Press to switch between the TV and the satellite receiver.
24 MTS/SAP	Press repeatedly to cycle through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP (Second Audio Program), and Mono. The MTS setting can be also accessed in the Audio menu. For more details, see "Selecting Stereo or Bilingual Programs" on page 63.
	When FUNCTION is switched on SAT/CABLE
GUIDE	Press to display the program guide of your satellite program provider.

Programming the Remote Control



The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Programmable Code Number
DVD/VCR	701 (Sony Dream System)
SAT/Cable	801 (Sony Satellite Receiver)

If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedures to program the remote control.

Note

The equipment must have infrared (IR) remote capability in order to be used with this remote control.

From the "Manufacturer's codes" listed on page 15, select the three-digit code number for the manufacturer's code of your equipment. If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment. Use the code number to complete the following procedure.

1. Press the DVD/VCR (FUNCTION) and RESET buttons simultaneously, or press the SAT/ CABLE (FUNCTION) and RESET buttons simultaneously. DVD/VCR and SAT/CABLE buttons flash.
2. Press the FUNCTION button you want to program.

   To program a cable box or a satellite receiver
   Press SAT/CABLE (FUNCTION).

   To program video equipment
   Press DVD/VCR (FUNCTION).
3. Enter the three-digit manufacturer's code number using the 0 - 9 buttons.
4. Press ENT (enter).
5. To check if the code number works, aim the TV's remote control at the equipment and press DVD/VCR and/or SAT/CABLE (POWER) that corresponds with that equipment. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

Tips

- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the Sony remote control. In this case, use the equipment's own remote control unit.

Manufacturer's Codes

DVD Players

Manufacturer	Code
Sony	751
General Electric	755
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Panasonic	753
Philips	757
Pioneer	752
RCA, Proscan	755
Samsung	758
Toshiba	754
Zenith	760

DVD Changers

Manufacturer	Code
Sony	765
Panasonic	766

5.1ch DVD AV System

Manufacturer	Code
Sony (DAV)	601, 602, 603, 604

VCRs

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa*	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electronics	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LG	332
LXI (SEARS)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Orion	317
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Signature 2000 (M.Ward)	338, 327
SV 2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Cable Box

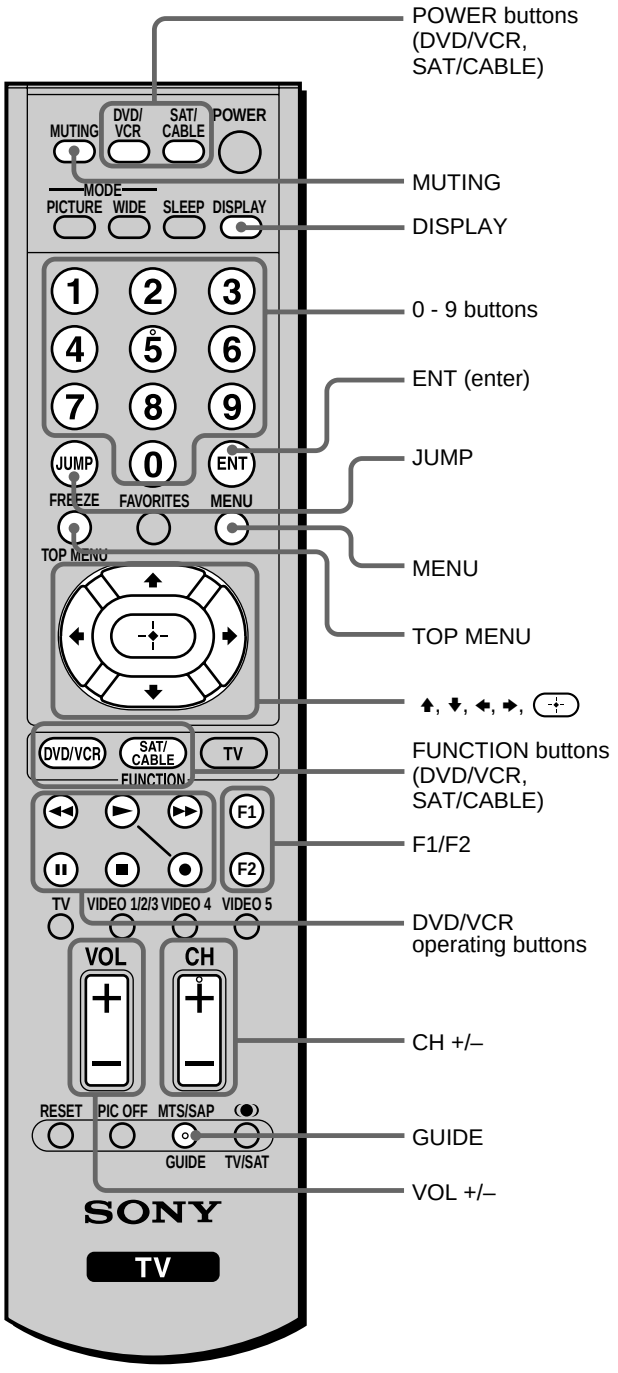
Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G.I.	201, 202, 203, 204, 205, 206, 207, 208, 218, 222
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General Electric	802
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

* If an Aiwa VCR does not work even though you enter the code for Aiwa, enter the code for Sony instead.

Using your Remote Controls with Other Equipment



Operating a Cable Box

To	Press
Turn on/off	SAT/CABLE (POWER)
Control a cable box	SAT/CABLE (FUNCTION)
Select a channel	0 - 9 buttons, ENT (enter)
Change channels	CH +/–
Go to the previous channel	JUMP

Operating a Satellite Receiver

To	Press
Turn on/off	SAT/CABLE (POWER)
Control a satellite receiver	SAT/CABLE (FUNCTION)
Select a channel	0 - 9 buttons, ENT (enter)
Change channels	CH +/–
Go to the previous channel	JUMP
Display the channel number	DISPLAY
Display the DBS guide	GUIDE
Display the DBS menu	MENU
Move the highlight (cursor)	↑, ↓, ←, →
Select the item	⊕

Operating a VCR

To	Press
Turn on/off	DVD/VCR (POWER)
Control a VCR	DVD/VCR (FUNCTION)
Change channels	CH +/–
Record	► and ● simultaneously
Play	►
Stop	■
Fast forward	►►
Rewind	◄◄
Pause	II (press again to resume normal playback)
Search the picture forward or backward	►► or ◄◄ during playback (release to resume normal playback)

Operating a DVD Player or DVD Changer

To	Press
Turn on/off	DVD/VCR (POWER)
Control a DVD player	DVD/VCR (FUNCTION)
If you have a DVD changer, to skip discs	F1
Play	►
Stop	■
Pause	❚❚ (press again to resume normal playback)
Step through different tracks of an audio disc	►► to step forward or ◄◄ to step backward
Step through different chapters of a DVD disc	CH + to step forward or CH – to step backward
Select a track directly	0 - 9 buttons
Display the menu (Setup)	MENU
Display the top menu	TOP MENU
Operate the DVD menu	↑, ↓, ←, →, ⊕

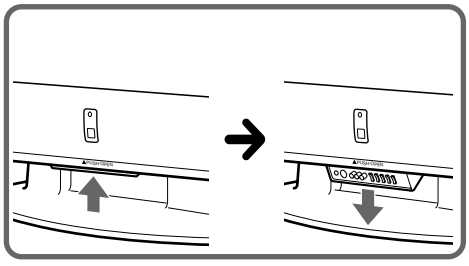
Operating a 5.1 DVD AV System (Sony DAV)

To	Press
Turn on/off	DVD/VCR (POWER)
Select other equipment connected to the DAV	F1
Skip a disk	F2
Display the DVD menu	TOP MENU
Display the menu (Setup)	MENU
Move the highlight (Cursor)	↑, ↓, ←, →
Select the item	⊕
Change the volume	VOL +/–, MUTING

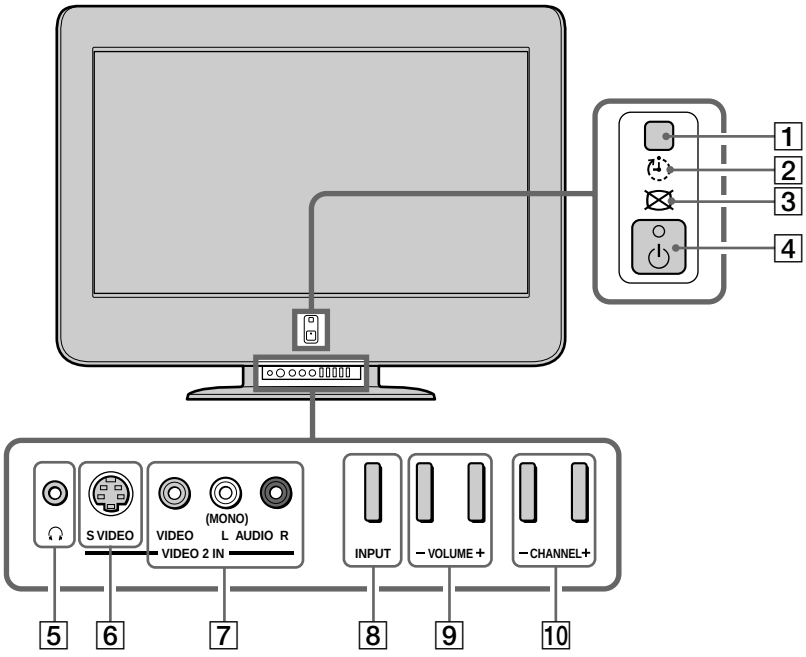
Overview of the TV Controls and Connectors

Front Panel Controls and Connectors

To open the drop-down panel

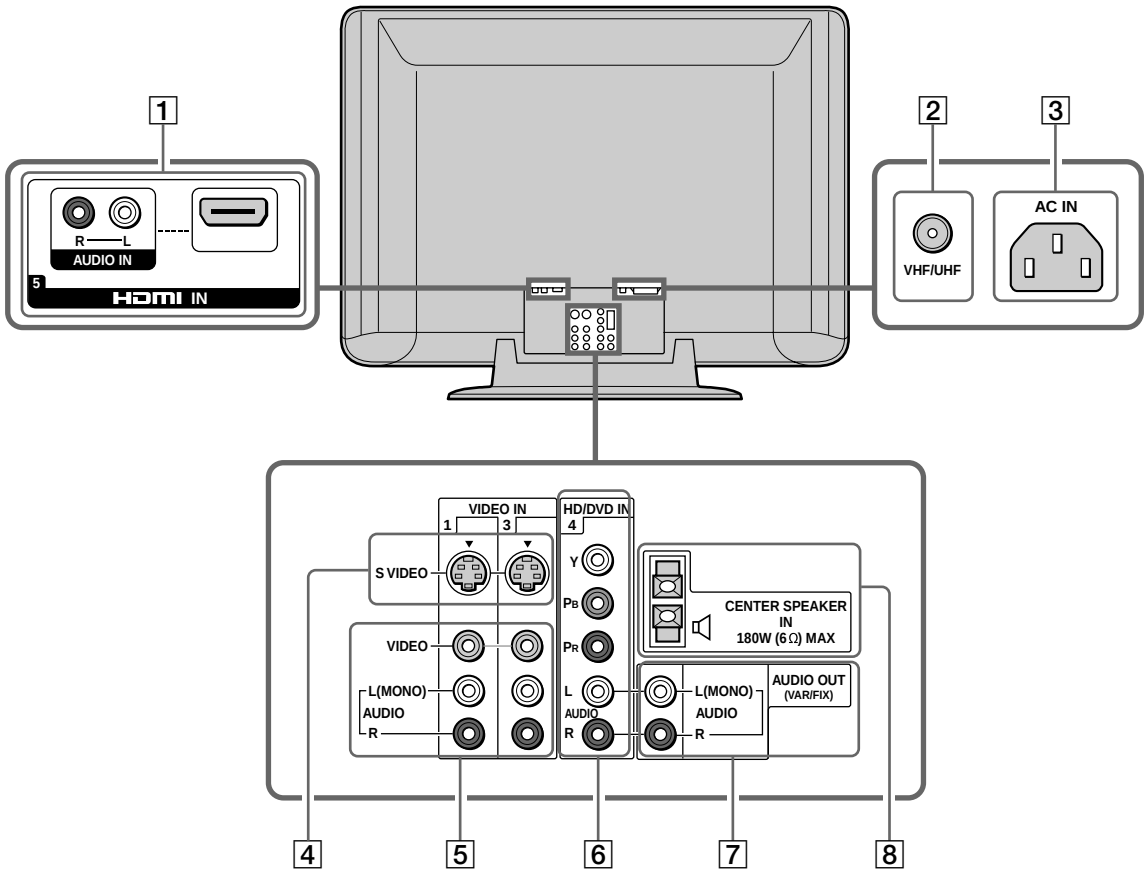


To open the drop-down panel of your TV, push up the panel door just under the ▲ mark until you hear a click, then the panel door will open.



Item/Jack	Description
1 (IR) Infrared Receiver	Receives IR signals from the remote control.
2 ⏲ (Timer) LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit. For details, see page 76.
3 ⊠ (Picture off) LED	When lit, indicates that the Picture Off feature is activated. For details, see page 48.
4 ⏻ (Power) and ⏻ (Power on/Stand by) LED	Press ⏻ (Power) to turn on and off the TV. The LED lights up green when the TV is turned on. When in standby mode, the LED lights up in red. If the LED blinks continuously, this may indicate the TV needs servicing (see page 77).
5 🎧 Headphones jack	Connects to your headphones. If your headphones do not match the jack, use a suitable plug adaptor (not supplied).
6 VIDEO 2 IN S VIDEO	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (7).
7 VIDEO 2 IN VIDEO/L-AUDIO-R	Connects to the composite A/V output jacks on your camcorder or other video equipment.
8 INPUT	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
9 – VOLUME +	Press to adjust the volume.
10 – CHANNEL +	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL.

Rear Panel Connectors



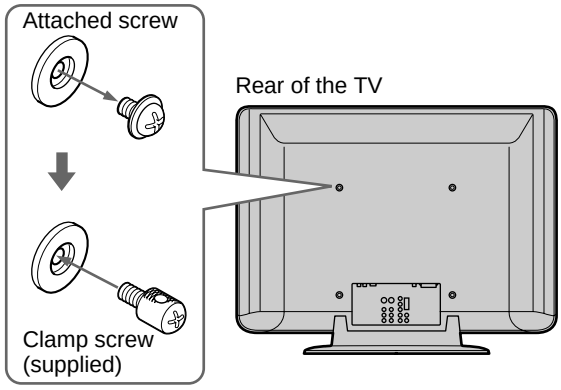
Jack	Description
1 HDMI 5 IN HDMI/L-AUDIO-R	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a digital satellite receiver, digital cable box, DVD player, and AV receiver. HDMI supports enhanced, or high-definition video, plus stereo digital audio.
2 VHF/UHF	RF input that connects to your VHF/UHF antenna or cable box.
3 AC IN	Connects the supplied AC power cord.
4 VIDEO 1/3 IN S VIDEO	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video (5) or VHF/UHF (2) connections.
5 VIDEO 1/3 IN VIDEO/L-AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A third composite A/V input jack (VIDEO 2 IN) is located on the front panel of the TV. These video connections provide better picture quality than the VHF/UHF (2) connections.
6 HD/DVD 4 IN Y, P_B, P_R/L-AUDIO-R	Connect to your DVD player's, digital satellite receiver or digital cable box's component video (Y, P_B, P_R) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO (4), the VHF/UHF (2) or the composite video (5) connections.
7 AUDIO OUT (VAR/FIX) L/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
8 CENTER SPEAKER IN 180W (6Ω) MAX	Connect the center output terminals of an audio equipment that has multi-channel speaker outputs, such as an AV Receiver with a Dolby Digital* (AC-3) decoder. You can use the TV speakers as a center speaker.

* "Dolby", "Dolby Digital", and the double-D symbol are trademarks of Dolby Laboratories.

Preventing the TV from Falling Down

After connections with antennas and other equipment are completed, be sure to attach the supplied clamp screws to the rear of the TV, and pass a sturdy cord or chain and attach it to a wall or pillar.

1 Remove one of the two screws at the rear of the TV, then attach the supplied clamp screw to the screw hole.



2 Repeat step 1 to attach the other clamp screw.

3 Attach a sturdy cord or chain securely to each clamp screw, and attach the cord or chain to a wall or pillar.

Connecting and Setting the TV

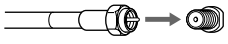
Basic Connections (Connecting Cable or an Antenna)

Connector types

You may find it necessary to use some of the following connector types during set up.

Supplied 75-ohm coaxial cable

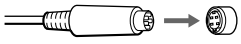
Screw-on type



Screw into connection.

S VIDEO cable

High quality video cable for enhanced picture quality



Align guides and push into connection.

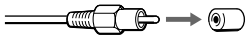
AUDIO/VIDEO cable

Push into connection.

VIDEO - Yellow
AUDIO (Left) - White
AUDIO (Right) - Red

Some DVD players are equipped with the following three video connectors:

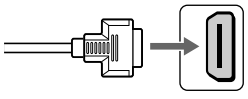
Y - Green
P_B (C_B, C_b or B-Y) - Blue
P_R (C_R, C_r or R-Y) - Red



Push into connection.

HDMI cable

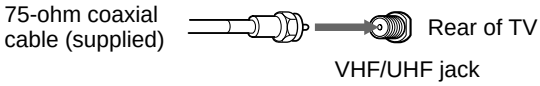
High definition multimedia interface cable



Aligh guides and push into connection.

Connecting directly to cable or an antenna

VHF only or VHF/UHF or cable



Note

It is strongly recommended to connect the antenna using a 75-ohm coaxial cable to get optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it away as far as possible from the TV.

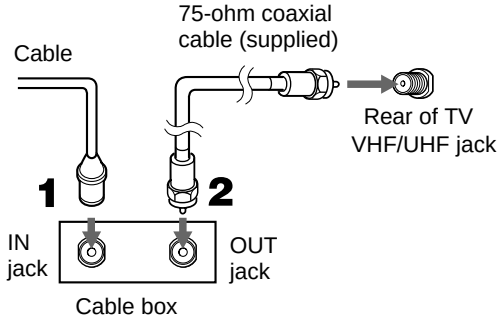
Cable box connections

Use this hookup if:

- You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- You do not intend to hook up any other audio or video equipment to your TV.

1 Connect the coaxial connector from your cable service to the cable box's IN jack.

2 Using the supplied 75-ohm coaxial cable, connect the cable box's OUT jack to the TV's VHF/UHF jack.



Also, set "Cable" to "On" in the (Channel) menu (see page 36).

Tips

- The supplied remote control can be programmed to operate your cable box (see "Programming the Remote Control" on page 14).
- To change channels using the cable box, set your TV to channel 3 or 4 depending on the cable box channel output.
- If you will be controlling all channel selection through your cable box, consider using the Channel Fix feature to set your TV to channel 3 or 4 (see page 37).

Connecting Optional Equipment

Use the instructions in this section to connect the following optional equipment:

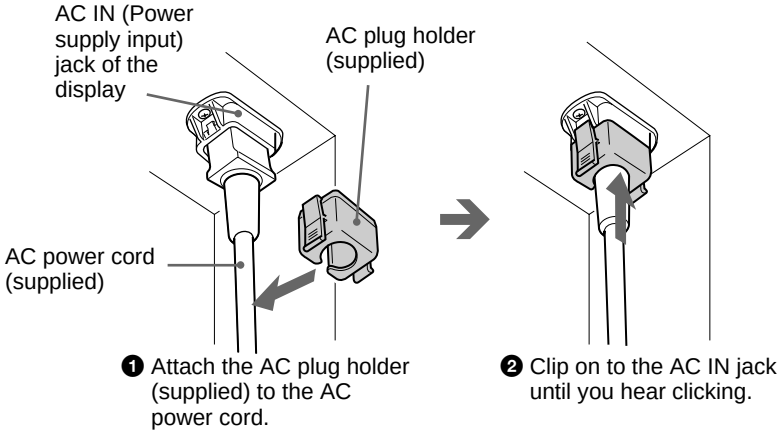
If you are connecting	See page
VCR and Cable TV	23 page
Satellite Receiver	24 page
Satellite Receiver and VCR	25 page
AV Receiver	26 page
DVD Player with Component Video Connectors	27 page
DVD Player with S Video and Audio Connectors	28 page
Digital Cable Box	29 page
Digital Satellite Receiver	30 page
Digital Satellite Receiver with HDMI Connector	31 page
DVD Player or Digital Satellite Receiver via AV Receiver	33 page
Camcorder	34 page

Connecting the Power Cord

Complete other connections prior to connecting the power cord.

1 Connect the power cord to the AC IN connector of the TV.

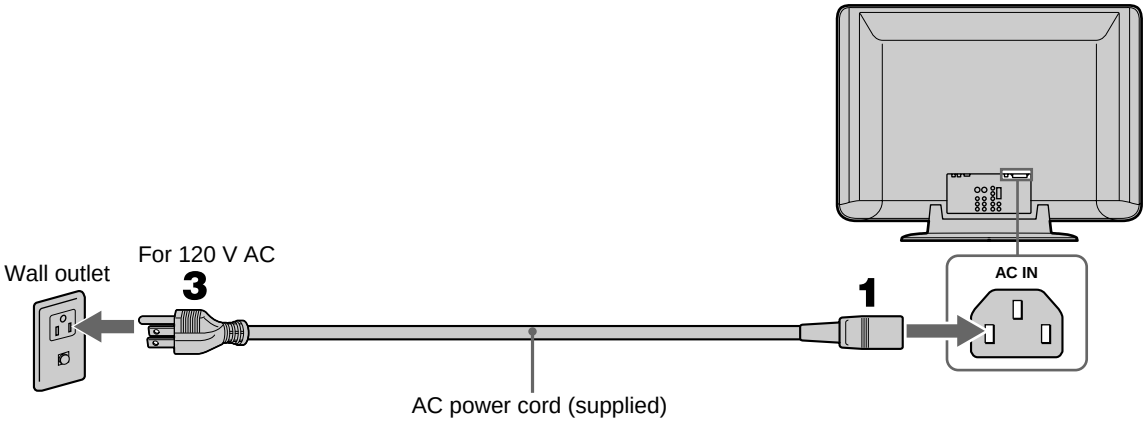
2 Secure the AC power plug to the display's AC IN jack.


AC IN (Power supply input) jack of the display
AC plug holder (supplied)
AC power cord (supplied)
❶ Attach the AC plug holder (supplied) to the AC power cord.
❷ Clip on to the AC IN jack until you hear clicking.

Note

When you unplug the AC power cord, slide the holder down by pushing both sides of the holder, then pull out the plug.

3 Connect the other plug of the power cord to a wall outlet.



Connecting a VCR and Cable TV

Use this hookup if:

- You subscribe to a cable TV system that does not require a cable box.

Disconnect all power sources before making any connections.

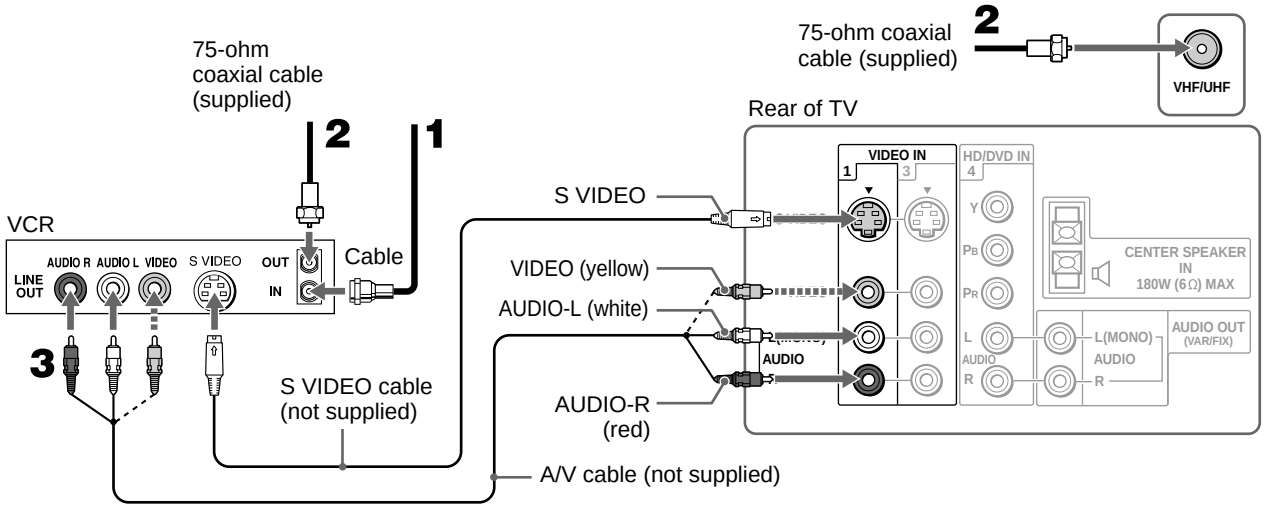
1 Connect the CATV cable to the VCR's IN jack.

2 Using the supplied 75-ohm coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF jack.

3 Using A/V and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks (VIDEO 1 IN or VIDEO 3 IN).

Tip

If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



Note

When you connect video equipment to both the VIDEO and the S VIDEO input jacks, make sure "Auto YC" in the (Setup) menu is set to "On" to view the S VIDEO input (see below).

Tip

You can also use the VIDEO 2 IN jacks located on the front of the TV to connect your VCR.

When connecting both VIDEO IN and S VIDEO IN

Using the menu, you can select the jack from which the TV receives the input signal. You can set it for each video input (VIDEO 1 IN, VIDEO 2 IN and VIDEO 3 IN) separately. The TV is factory set to receive S VIDEO input signals.

1 Press VIDEO 1/2/3 repeatedly until the desired video input appears.

2 Press MENU.

3 Press ↑/↓ to select (Setup), then press ⊕.

4 Press ↑/↓ to select "Auto YC," then press ⊕.

5 To watch the pictures input from the S VIDEO input jack:
Press ↑/↓ to select "On," then press ⊕.

To watch the pictures input from the VIDEO input jack:
Press ↑/↓ to select "Off," then press ⊕.

6 Press MENU to exit the menu screen.

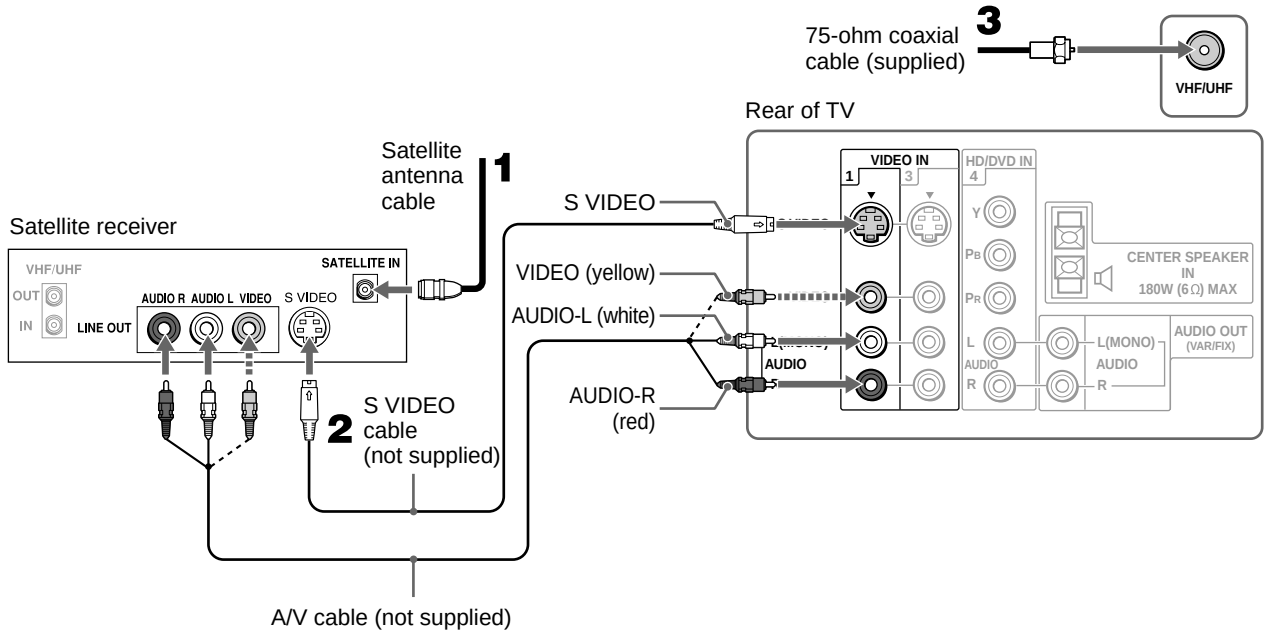
Connecting a Satellite Receiver

Disconnect all power sources before making any connections.

1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.

2 Using A/V and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks (VIDEO 1 IN or VIDEO 3 IN).

3 Connect the supplied 75-ohm coaxial cable from your cable or antenna to the TV's VHF/UHF jack.



Note

When you connect video equipment to both the VIDEO and the S VIDEO input jacks, make sure "Auto YC" in the (Setup) menu is set to "On" to view the S VIDEO input (see page 23).

Tips

- You can also use the VIDEO 2 IN jacks located on the front of the TV to connect your satellite receiver.
- If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- Use VIDEO 1/2/3 on the remote control to select VIDEO 1 IN (or VIDEO 3 IN if you use the VIDEO 3 IN jacks for this hookup) to watch satellite TV.

Connecting a Satellite Receiver and a VCR

Disconnect all power sources before making any connections.

1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.

2 Connect the CATV cable to the VCR's VHF/UHF IN jack.

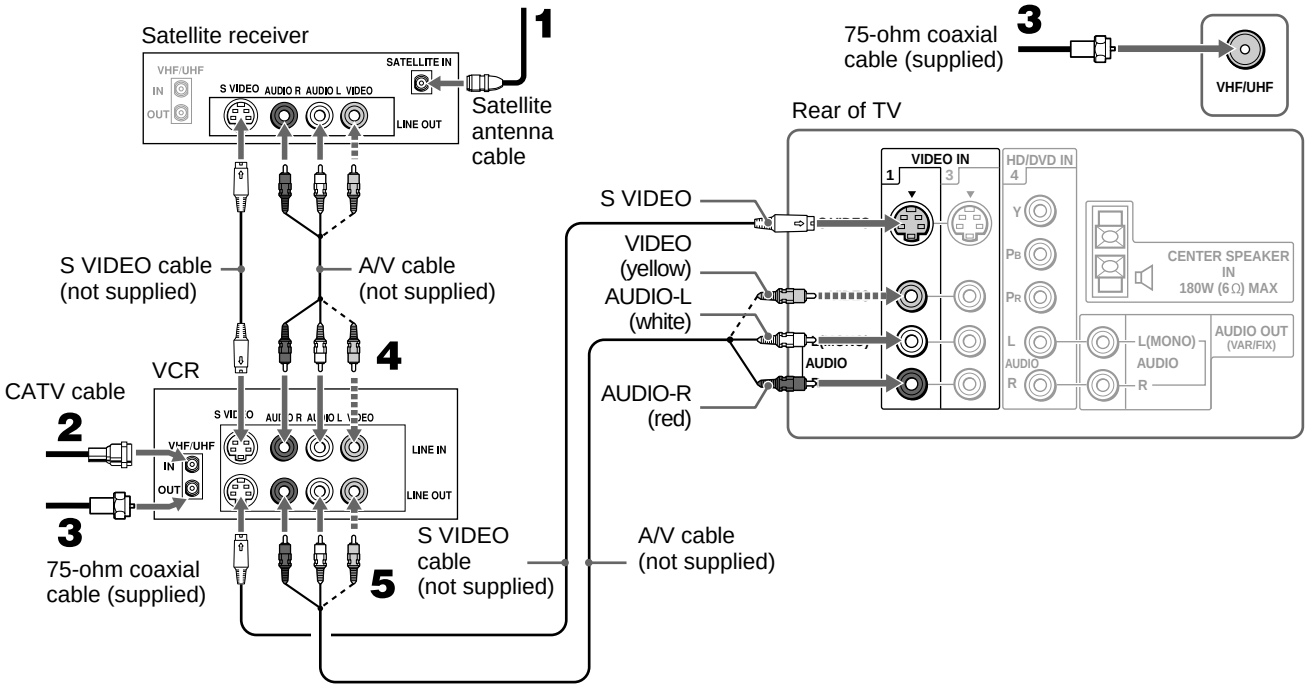
3 Using the supplied 75-ohm coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF jack.

4 Using A/V and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the VCR's AUDIO and S VIDEO IN jacks.

Tip

If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

5 Using A/V and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks (VIDEO 1 IN or VIDEO 3 IN).



Note

When you connect video equipment to both the VIDEO and the S VIDEO input jacks, make sure "Auto YC" in the (Setup) menu is set to "On" to view the S VIDEO input (see page 23).

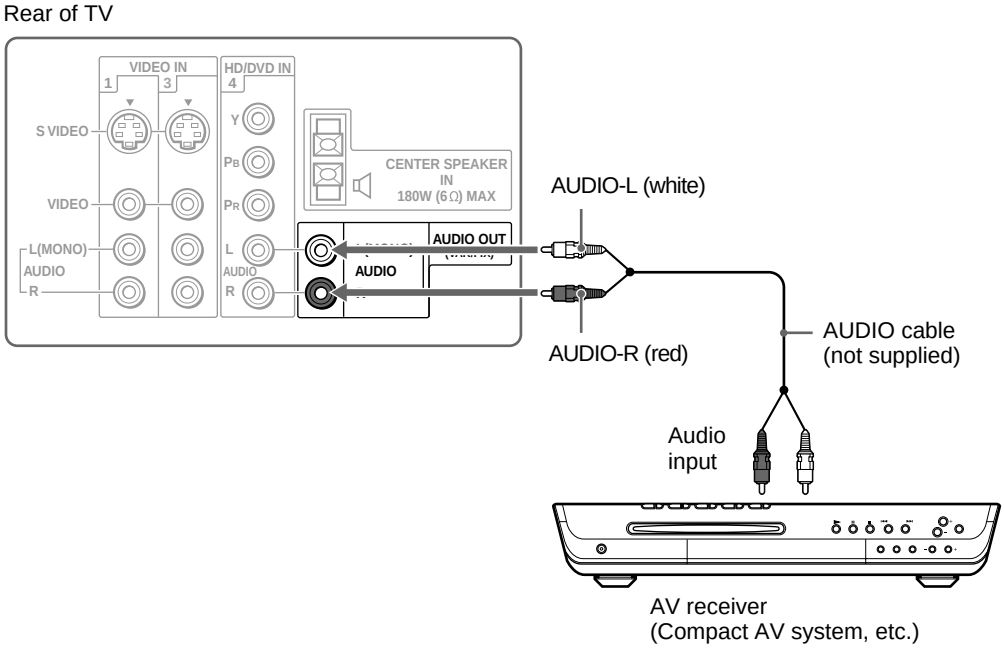
Tips

- You can also use the VIDEO 2 IN jacks located on the front of the TV to connect your VCR.
- Be sure your VCR's video input is set correctly. Consult your VCR's operating manual for instructions.
- Use VIDEO 1/2/3 on the remote control to select VIDEO 1 IN (or VIDEO 3 IN if you use the VIDEO 3 IN jacks for this hookup) to watch satellite TV or to watch a tape on the VCR (your VCR must be turned on).

Connecting an AV Receiver

Disconnect all power sources before making any connections.

Using an AUDIO cable, connect the TV's AUDIO OUT jacks to the AV receiver's AUDIO IN jacks.



When using your audio system speakers

You can control the volume output from your audio system using the TV's remote control (see "Programming the Remote Control" on page 14), by setting "Audio Out" in the (Audio) menu to "Variable."
If you want to adjust the volume through your audio system, set "Audio Out" to "Fixed."

Notes

- The video signal is not output through the AUDIO OUT jacks.
- When "Audio Out" in the (Audio) menu is set to "Variable," "Speaker" is to "Off," check if the speaker volume is moderate before switching "Speaker" from "Off" to "On." Otherwise, the speaker volume may be too loud.

Connecting a DVD Player with Component Video Connectors

Use this hookup if:

- Your DVD player has component (Y, P_B, P_R) jacks.

Tips

- The Y, P_B and P_R jacks on your DVD player are sometimes labeled as Y, C_B and C_R, or Y, B-Y and R-Y. If so, connect the cables to the matching colors.
- To take advantage of the Wide Screen Modes, set the aspect ratio of the output signal to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.

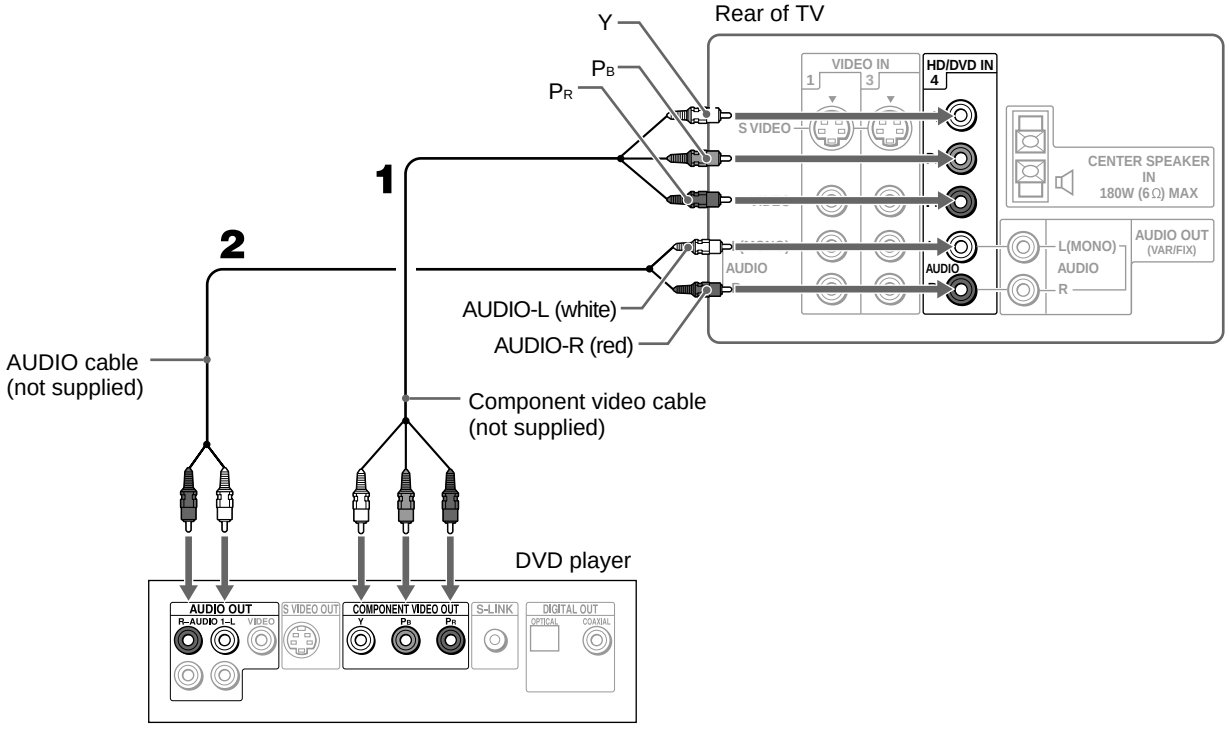
Disconnect all power sources before making any connections.

1 Using a component video cable, connect the DVD player's Y, P_B and P_R jacks to the Y, P_B and P_R jacks on the TV. Use the HD/DVD 4 IN connections.

2 Using an AUDIO cable, connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks (HD/DVD 4 IN).

Note

The Y, P_B and P_R jacks do not provide audio, so audio cables must be connected to provide sound.



Connecting a DVD Player with S Video and Audio Connectors

Use this hookup if:

- Your DVD player does not have component (Y, P_B, P_R) jacks.

Tips

- If your DVD player has component video output connectors, for best picture quality, use the connection described on page 27.
- The Y, P_B and P_R jacks on your DVD player are sometimes labeled as Y, C_B and C_R, or Y, B-Y and R-Y. If so, connect the cables to the matching colors.
- To take advantage of the Wide Screen Modes, set the aspect ratio of the output signal to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.

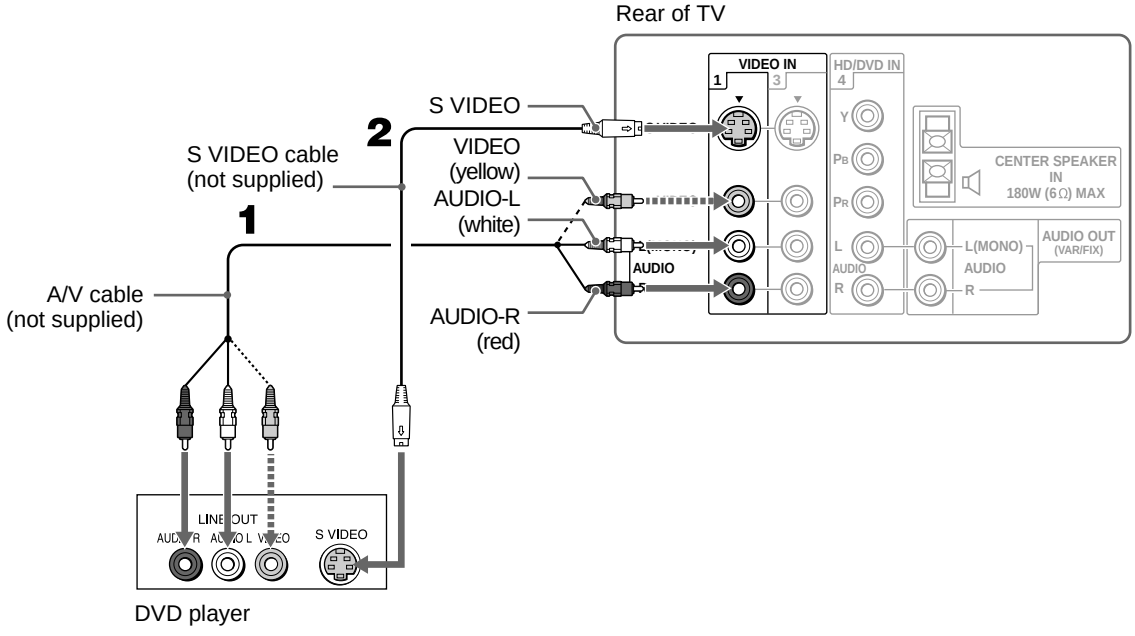
Disconnect all power sources before making any connections.

1 Using an A/V cable, connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks.

2 Using an S VIDEO cable, connect the DVD player's S VIDEO OUT jack to the TV's S VIDEO IN jack (VIDEO 1 IN or VIDEO 3 IN).

Tip

If your DVD player is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



Note

When you connect video equipment to both the VIDEO and the S VIDEO input jacks, make sure "Auto YC" in the (Setup) menu is set to "On" to view the S VIDEO input (see page 23).

Tips

- You can also use the VIDEO 2 IN jacks located on the front of the TV to connect your DVD player.
- Use VIDEO 1/2/3 on the remote control to switch to the DVD player input.

Connecting a Digital Cable Box

Disconnect all power sources before making any connections.

1 Using a component video cable, connect the Digital Cable Box's Y, P_B and P_R jacks to the Y, P_B and P_R jacks on the TV. Use the HD/DVD 4 IN connections.

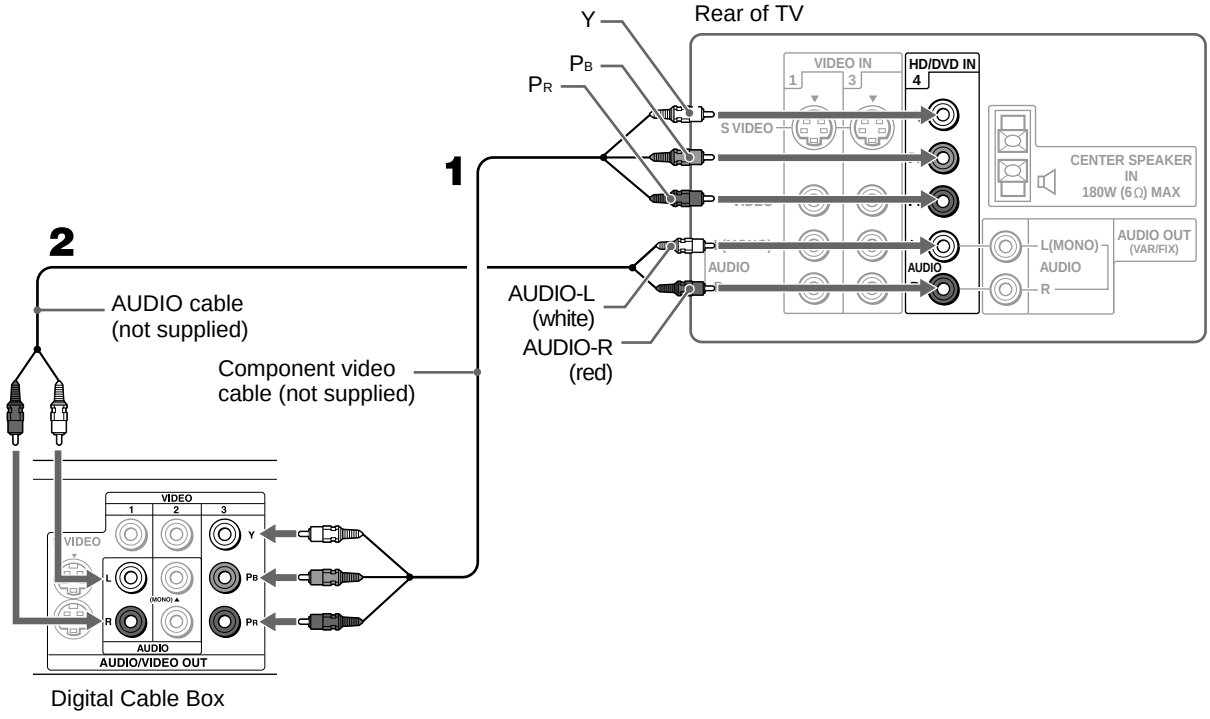
Note

Component video (Y, P_B, P_R) connection is necessary to view 480p, 720p, and 1080i formats. Note that this TV displays all format types of picture in a resolution of 852 dots × 480 lines.

2 Using an AUDIO cable, connect the Digital Cable Box's AUDIO OUT jacks to the TV's AUDIO IN jacks (HD/DVD 4 IN).

Note

The Y, P_B and P_R jacks do not provide audio, so audio cables must be connected to provide sound.



Connecting a Digital Satellite Receiver

Disconnect all power sources before making any connections.

1 Using a component video cable, connect the Digital Satellite Receiver's Y, P_B and P_R jacks to the Y, P_B and P_R jacks on the TV. Use the HD/DVD 4 IN connections.

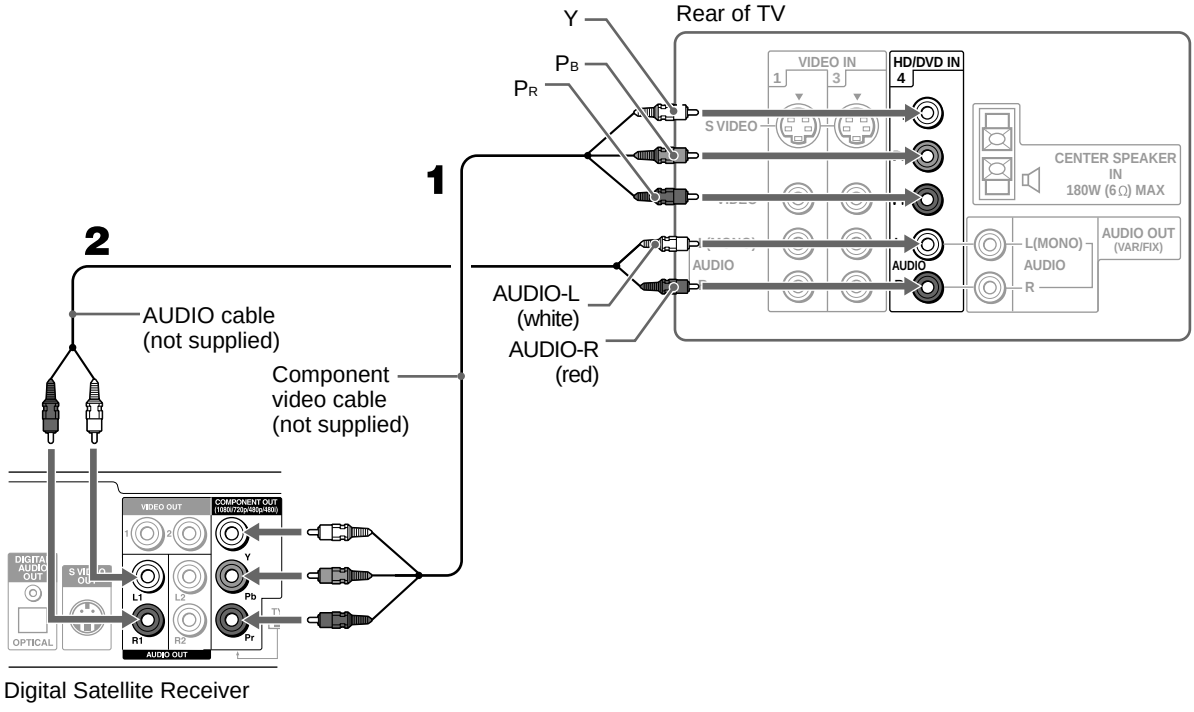
Note

Component video (Y, P_B, P_R) connection is necessary to view 480p, 720p, and 1080i formats. Note that this TV displays all format types of picture in a resolution of 852 dots × 480 lines.

2 Using an AUDIO cable, connect the Digital Satellite Receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks (HD/DVD 4 IN).

Note

The Y, P_B and P_R jacks do not provide audio, so audio cables must be connected to provide sound.



Digital Satellite Receiver

Connecting a Digital Satellite Receiver with HDMI Connector

Use this hookup if:

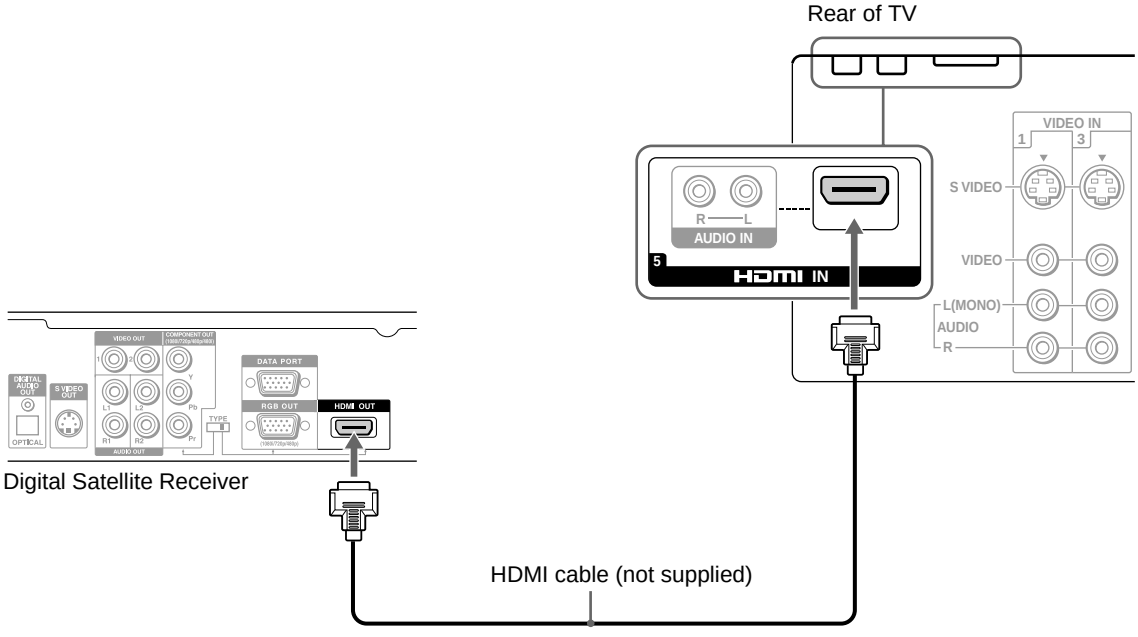
- Your Digital Satellite Receiver has a High-Definition Multimedia Interface (HDMI).

Disconnect all power sources before making any connections.

Using an HDMI cable (not supplied), connect the Digital Satellite Receiver's HDMI OUT connector to the TV's HDMI IN connector. Use the HDMI 5 IN connection.

Tip

The HDMI connector provides both video and audio signals, so it is not necessary to connect the audio cable.



(Continued)

When connecting to the Digital Satellite Receiver's DVI-HDTV connector

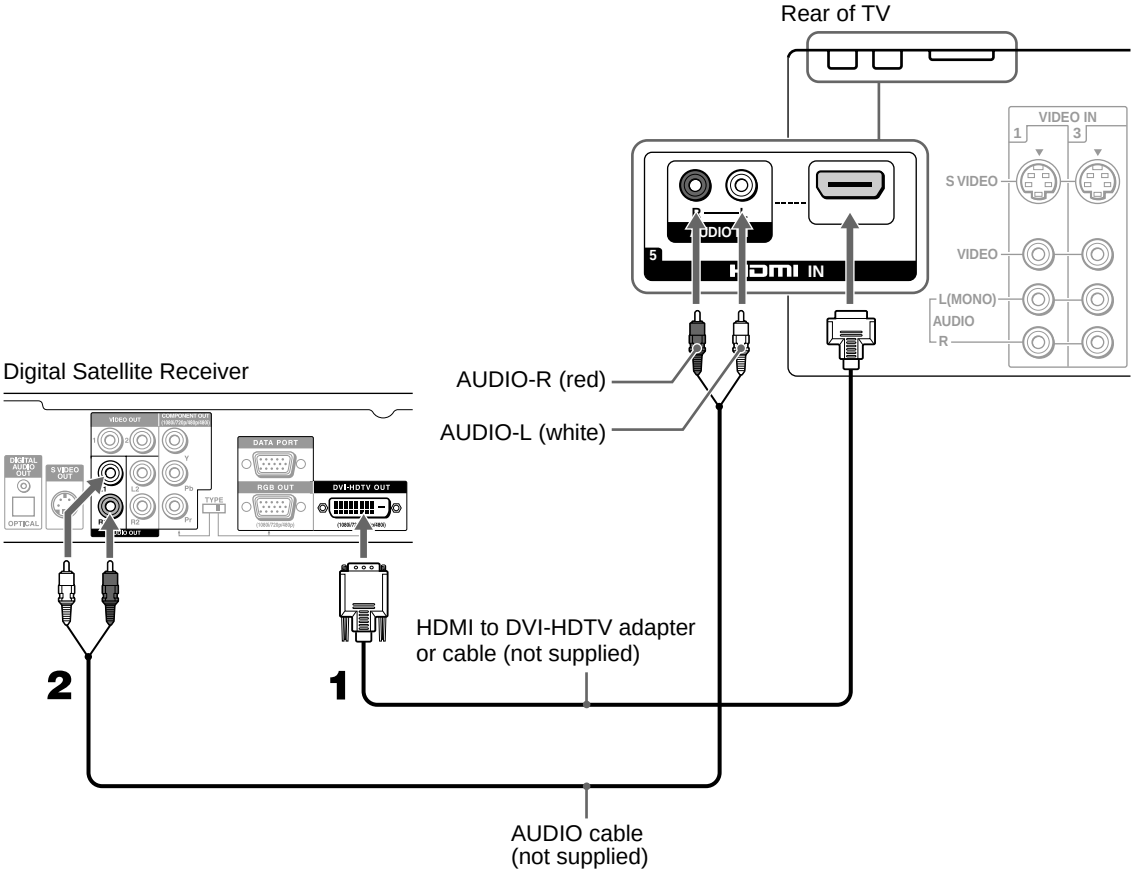
If the Digital Satellite Receiver does not have an HDMI connector, you can connect the TV's HDMI IN connector to the Digital Satellite Receiver's DVI-HDTV OUT connector using the HDMI cable (not supplied).

1 Using a HDMI cable (not supplied), connect the Digital Satellite Receiver's DVI-HDTV OUT connector to the TV's HDMI IN connector. Use the HDMI 5 IN connection.

Note

The DVI-HDTV VIDEO connector does not provide audio, so audio cables must be connected to provide sound when an HDMI to DVI-HDTV adapter is used.

2 Using an AUDIO cable, connect the Digital Satellite Receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks (HDMI 5 IN).



Connecting a DVD Player or Digital Satellite Receiver via AV Receiver with CENTER SPEAKER IN terminals

Use this hookup if:

- You have an audio equipment that has multi-channel speaker outputs, such as an AV Receiver with a Dolby Digital (AC-3) dcoder.

Disconnect all power sources before making any connections.

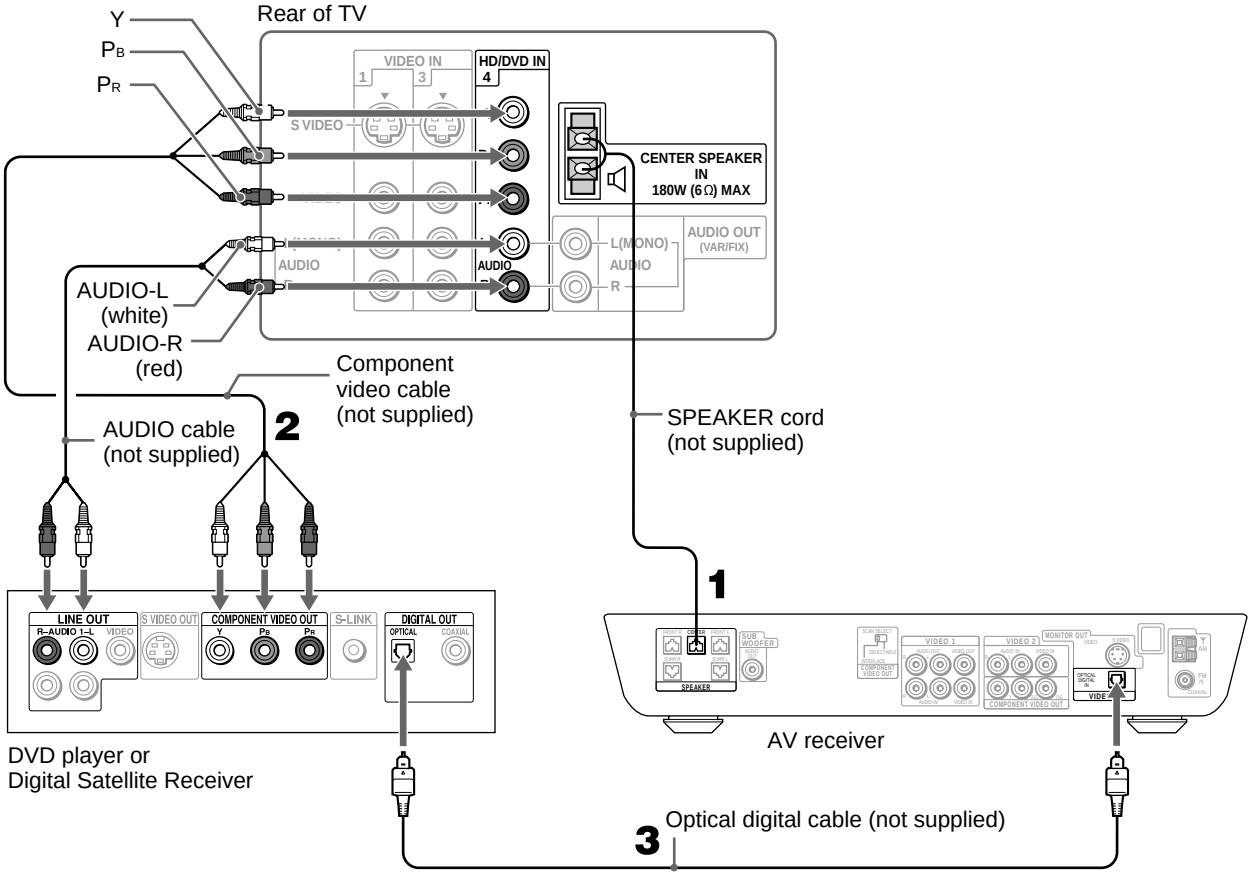
1 Using a SPEAKER cord, connect the TV's CENTER SPEAKER IN terminals to the AV Receiver's CENTER SPEAKER OUT terminals.

2 Using a component video cable, connect the DVD player or Digital Satellite Receiver's Y, P_B and P_R jacks to the Y, P_B and P_R jacks on the TV. Use the HD/DVD 4 IN connections. Using an AUDIO cable, connect the DVD player or Digital Satellite Receiver to the TV's AUDIO IN jacks.

Tips

- If your DVD player does not have component (Y, P_B, P_R) jacks, you can connect the DVD player with A/V connectors, use the connection described on page 28.
- If your Digital Satellite Receiver has a DVI-HDTV or HDMI connector, for best picture quality, use the connection described on page 31.

3 Using an optical digital cable, connect the DVD player or Digital Satellite Receiver's OPTICAL OUT jack to the AV Receiver's OPTICAL IN jack.



When using the TV's speakers as the center speaker

Using "Center Speaker Mode" in (Audio) menu, select the video input that you want to use the TV's speakers as the center speaker, and set to "On." For more details, see "Using the Center Speaker Feature" on page 49.

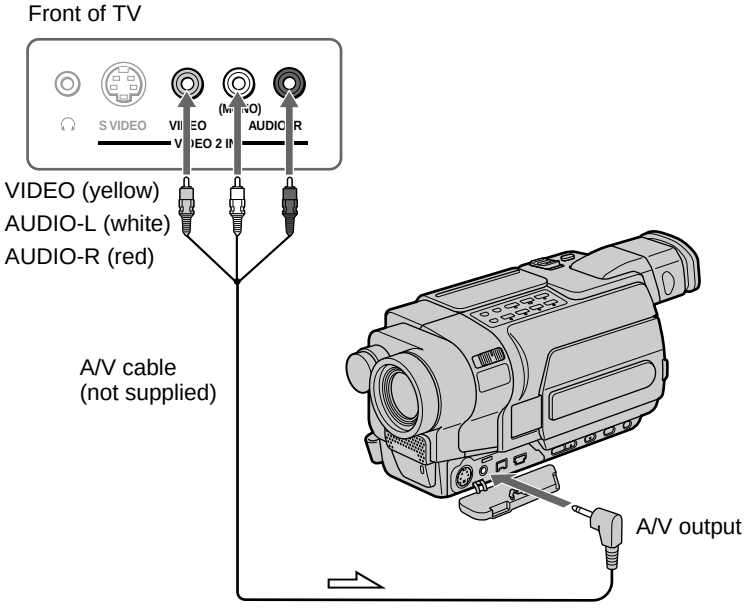
Connecting a Camcorder

Disconnect all power sources before making any connections.

Using an A/V cable, connect the Camcorder's A/V OUT jack to the TV's AUDIO IN jacks and VIDEO IN jack (VIDEO 2 IN).

Tips

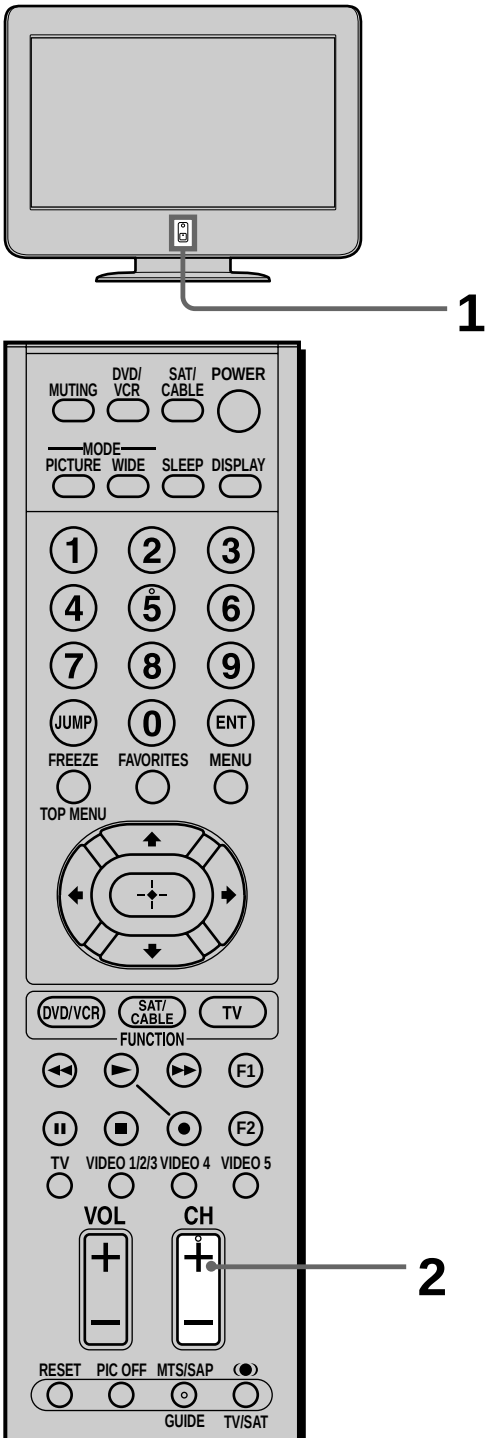
- You can also use the VIDEO 1 IN and VIDEO 3 IN jacks located on the rear of the TV to connect your camcorder.
- If your camcorder has S Video output connector, for better picture quality, use S VIDEO cable to connect the camcorder's S VIDEO OUT jack to the TV's S VIDEO IN jack (VIDEO 2 IN).



Setting the TV

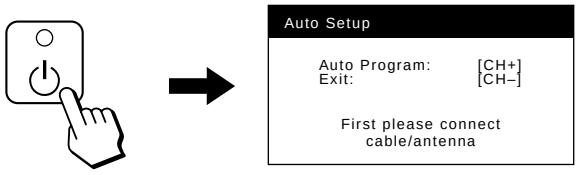
Setting the Channels

After you finish connecting your TV, you can run Auto Program to set up your channels. The Auto Setup menu appears when you turn your TV on for the first time after installing it.
To skip channels, see page 36.



1 Press ⏻ (Power) on the TV.

The Auto Setup menu automatically appears on the screen when you turn on the TV for the first time.



2 Press CH + on the remote control or on the drop-down panel of your TV to perform Auto Program.

When all the receivable channels are stored, the "Channel Skip/Add" menu appears.

Auto Program is set to scan cable TV channels by default. To watch VHF/UHF channels with an antenna, see "To watch VHF/UHF channels with an antenna" on page 36.

To perform Auto Program again

1 Press MENU.

2 Press ↑/↓ to select (Channel), then press ⊕.

3 Press ↑/↓ to select "Auto Program," then press ⊕.

4 Press ⊕.

"Auto Program" appears and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, the "Channel Skip/Add" menu appears. Using this menu, you can start skipping unnecessary channels (see "To skip channels" on page 36).

5 Press MENU to exit the menu screen.

To cancel Auto Program

While "Auto Program" is displayed in step 3, press MENU on the remote control.

Note

To watch cable TV channels, you have to subscribe to a cable TV company. Note that cable TV cannot be received in some areas. This TV receives 1-125 cable TV channels. For details on cable TV subscription, consult your nearest cable TV company.

(Continued)

To watch VHF/UHF channels with an antenna

1 Press MENU.

2 Press ↑/↓ to select (Channel), then press .

3 Press ↑/↓ to select “Cable,” then press .

4 Press ↑/↓ to select “Off,” then press .

5 Perform steps 3 - 5 in “To perform Auto Program again” above.

Note

You cannot receive and set the cable TV channels and VHF/UHF channels at the same time.

Tip

When you have a cable box or satellite receiver connected, the Channel Fix feature is useful. For details, see page 37.

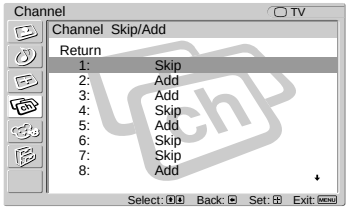
To skip channels

You can skip unnecessary channels when selecting channels using the CH +/– buttons.

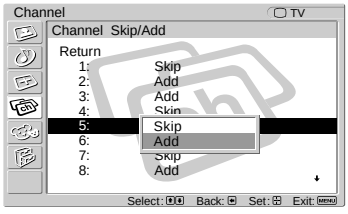
1 Press MENU.

2 Press ↑/↓ to select (Channel), then press .

3 Press ↑/↓ to select “Channel Skip/Add,” then press .



4 Press ↑/↓ to select the channel you want to skip, then press .

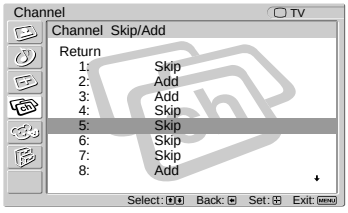


Example: Select this to skip channel 5.

Tip

To scroll through the list, press and hold ↑/↓.

5 Press ↑/↓ to select “Skip,” then press .



If you want to re-enter the skipped channel, select “Add.”

6 Press MENU to exit the menu screen.

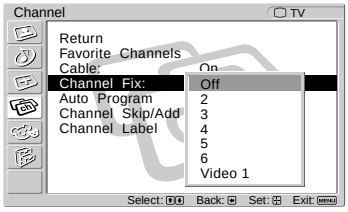
To fix in a TV channel

If you have connected a cable box or satellite receiver to your TV, and do not intend to connect any other audio or video equipment, it is recommended that you fix a TV channel. Doing so will ensure no accidental channel switch when using your TV.

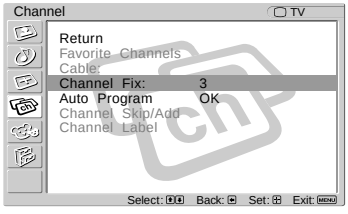
1 Press MENU.

2 Press ↑/↓ to select (Channel), then press ⊕.

3 Press ↑/↓ to select “Channel Fix,” then press ⊕.



4 Press ↑/↓ to select the channel you want to set, then press ⊕.



Option	Description
2-6	Select one of these channels if you have connected the equipment to the VHF/ UHF jack.
Video 1	Select this if you have connected the equipment to the VIDEO 1 IN jacks.
Off	Select this to turn off the Channel Fix feature.

5 Press MENU to exit the menu screen.

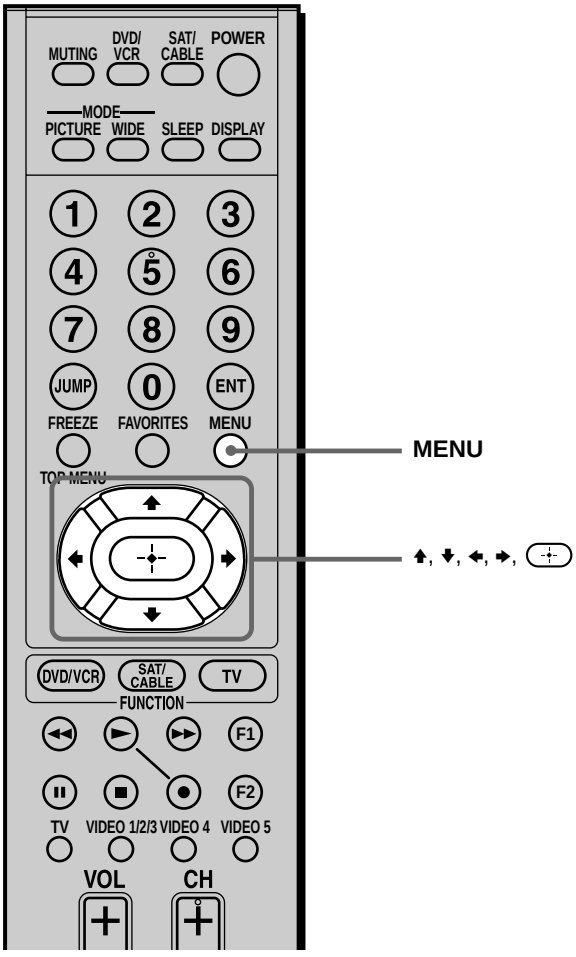
Notes

- When you fix a TV channel, the Favorite Channel feature cannot be used.
- When you fix a TV channel, you cannot select “Channel Skip/ Add” in the menu. To use it, set “Channel Fix” to “Off.”

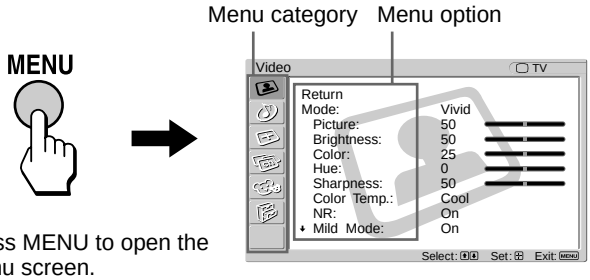
Using the Menu

Most of advanced settings and adjustments are performed using the menu screen.
Basic operations to navigate through menus are described below.

- Items which appear in yellow are selected.
- You cannot select items which appear in pale color.



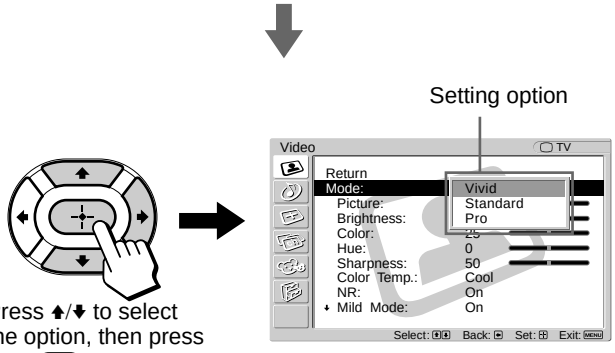
To open the menu screen and select the option



Press MENU to open the menu screen.

Press ↑/↓ to select the desired category, then press ⊕.

To exit the menu screen, press MENU again.

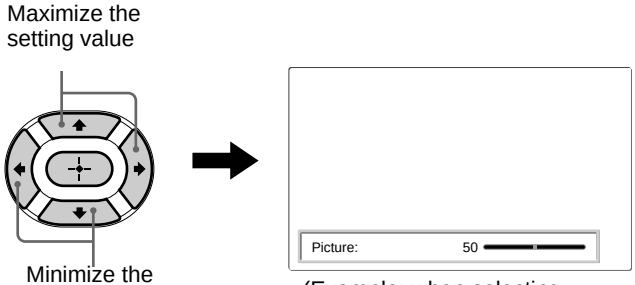


Press ↑/↓ to select the option, then press → or ⊕.

(The → button cannot be used on some menus.)

(Example: when selecting "Mode" in the (Video) menu)

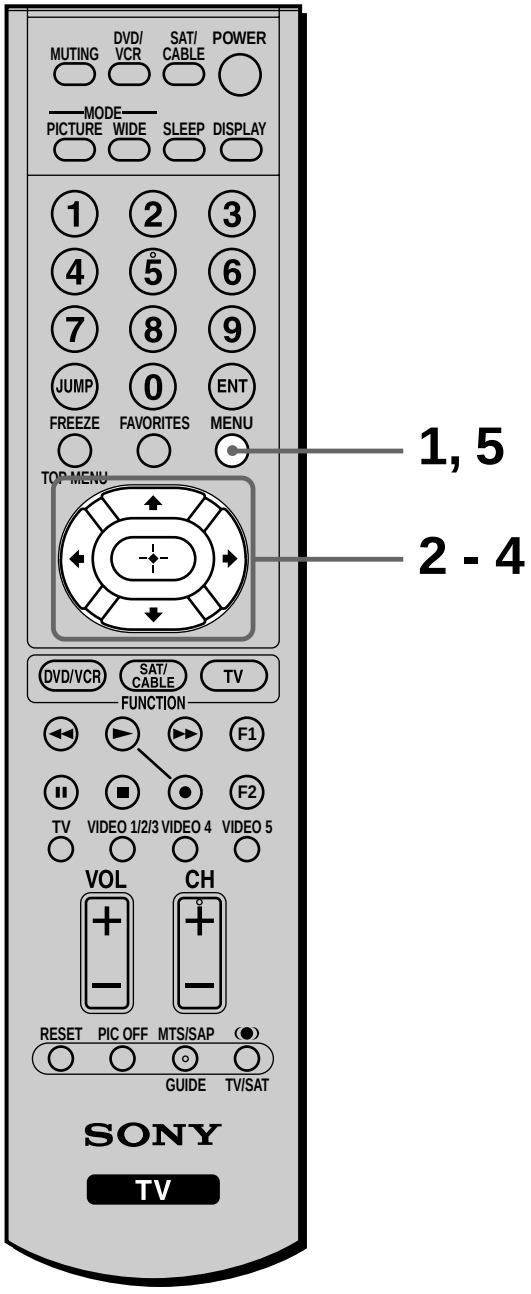
To adjust the setting



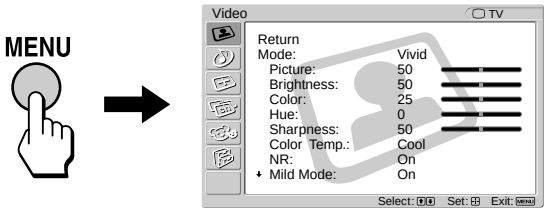
(Example: when selecting "Picture" in the (Video) menu)

Selecting the On-screen Menu Language

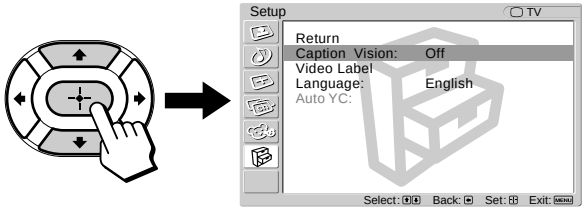
You can select the language to be displayed in all menus.



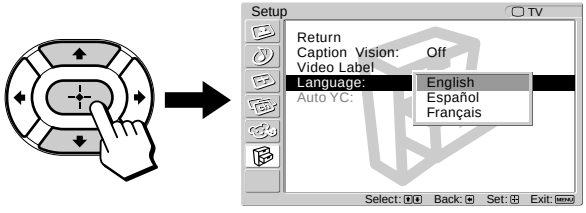
1 Press MENU.



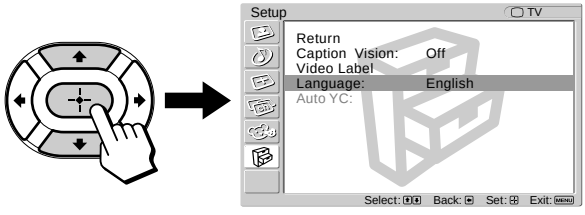
2 Press ↑/↓ to select (Setup), then press ⊕.



3 Press ↑/↓ to select “Language,” then press ⊕.



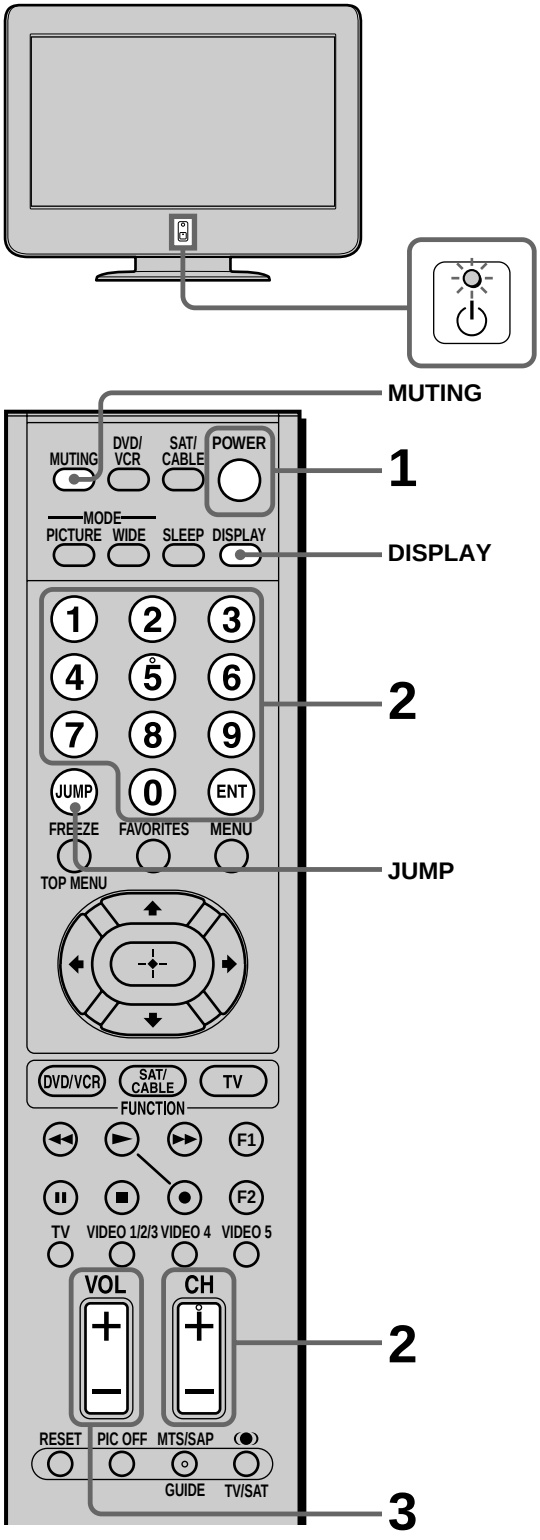
4 Press ↑/↓ to select your preferred language, then press ⊕.



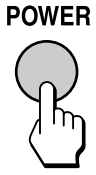
5 Press MENU to exit the menu screen.

Watching the TV

Watching the TV



1 Press POWER on the remote control.



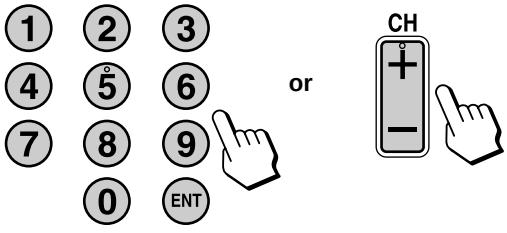
Tip

When the ⏻ (Power on/Stand by) LED goes off, press ⏻ (Power) on the TV.

2 Select the desired channel using the 0-9 and ENT (enter) buttons.

Press 0-9 to select a channel. The channel changes after 2 seconds. Press ENT (enter) to select immediately.

Use the CH +/– buttons to scan through the channels.



Tip

When you press and hold CH + or –, the channel number will change rapidly.

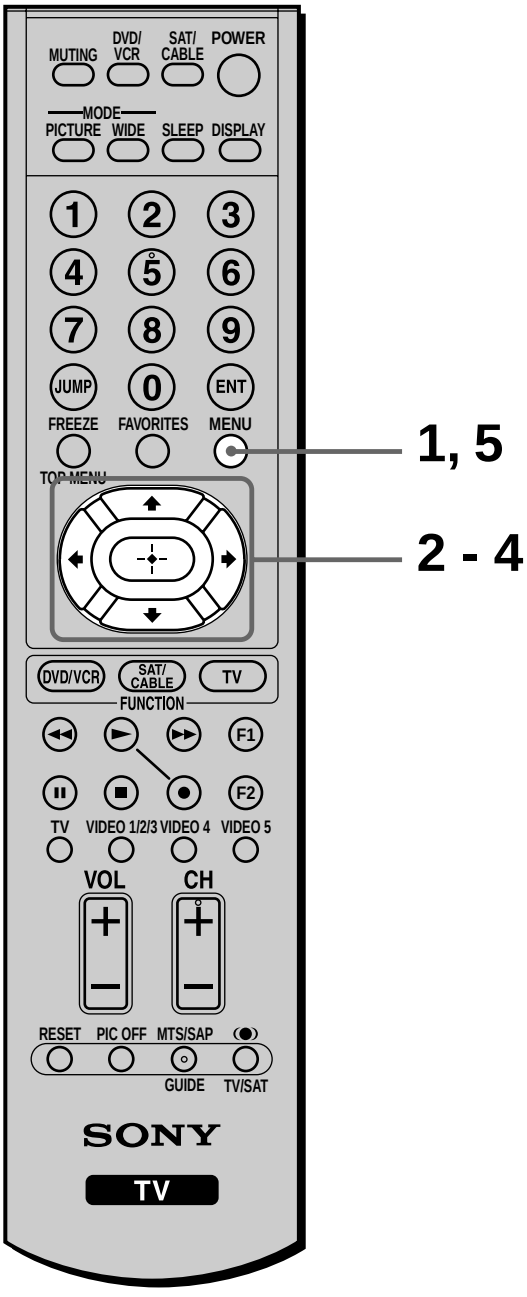
3 Adjust the volume using the VOL +/– buttons.

Other button operations

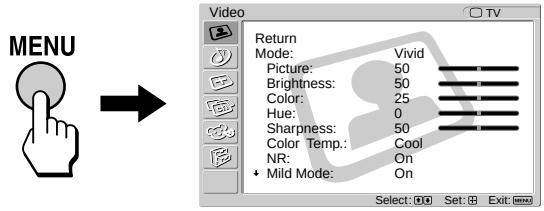
Press	To
MUTING	Mute the sound. Press it again or press VOL + to restore sound.
DISPLAY	Press once to display the current channel number/channel label and the Wide Screen Mode or the current video input number/video label and the Wide Screen Mode. When the display is turned on, the current channel number/channel label or video input number/video label remains displayed. Press it again to turn the display off.
JUMP	Jump back and forth between two channels. The TV alternates between the current channel and the last channel selected using the 0-9 buttons.

Watching with closed caption

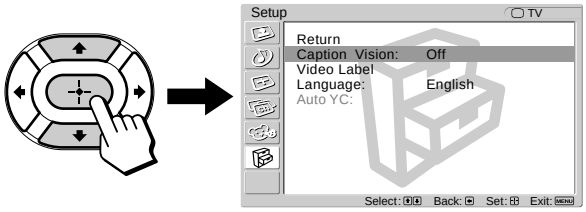
You can display Caption Vision if the broadcaster offers this service.



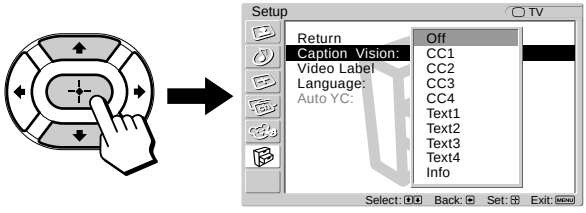
1 Press MENU.



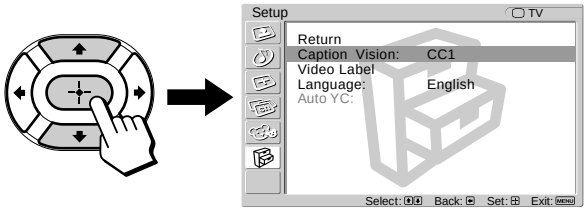
2 Press ↑/↓ to select (Setup), then press .



3 Press ↑/↓ to select “Caption Vision” then press .



4 Press ↑/↓ to select your desired Caption Vision, then press .



Select	To
Off	Turn off Caption Vision.
CC1, CC2, CC3, CC4	Display a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.)
Text1, Text2, Text3, Text4	Display network/station information presented using either half or the whole screen.
Info	Displays the program name and the time remaining in the program (if the broadcaster offers this service). Displays when the channel is changed or DISPLAY is pressed.

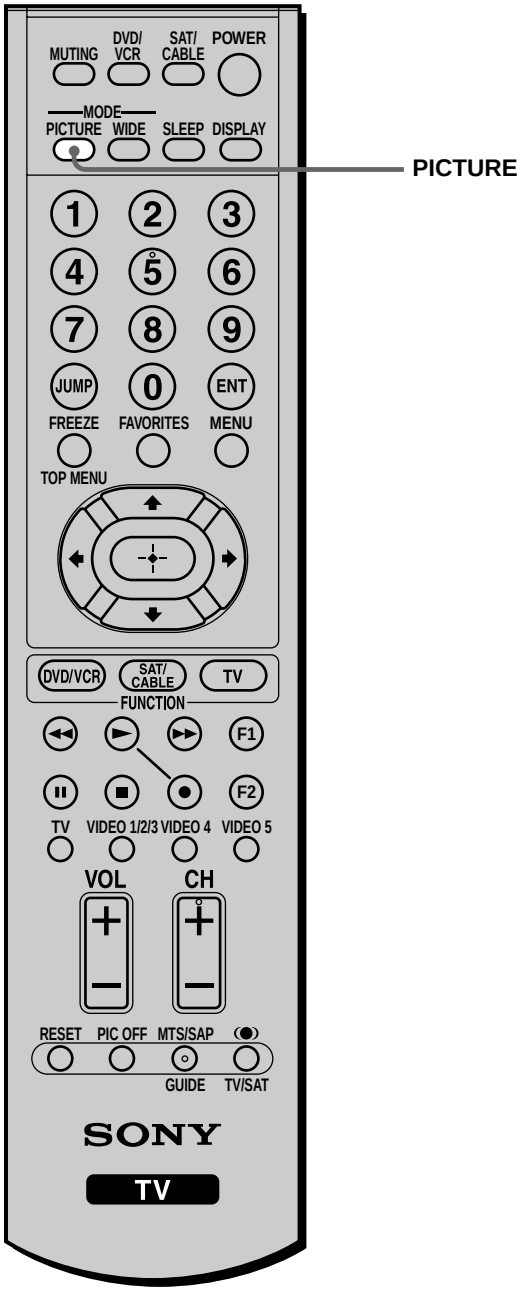
5 Press MENU to exit the menu screen.

Note

When the TV receives 480p signal or higher resolution signal, “Caption Vision” cannot be selected.

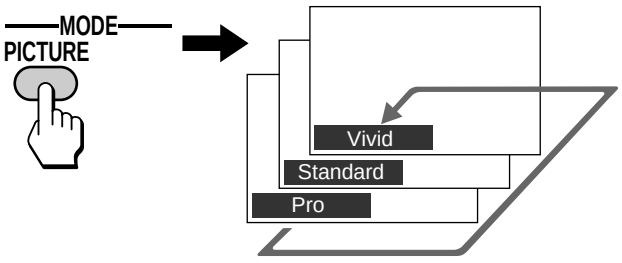
Selecting the Picture Mode

You can select one of three different Picture Modes that best suits the program you are watching. Furthermore, you can adjust the picture quality for each Picture Mode (see pages 59, 60).
You can set a different Picture Mode for each video input that can be selected using the Input Select buttons, and store them in memory.



Press PICTURE repeatedly until the desired mode appears.

Each time you press the button, the Picture Mode changes as follows:



Picture Mode	Description
Vivid	Select for enhanced picture contrast and sharpness.
Standard	Select to display a picture with contrast to suit your room's lighting conditions. This mode is recommended for normal viewing conditions.
Pro	Select for professional monitor-like appearance.

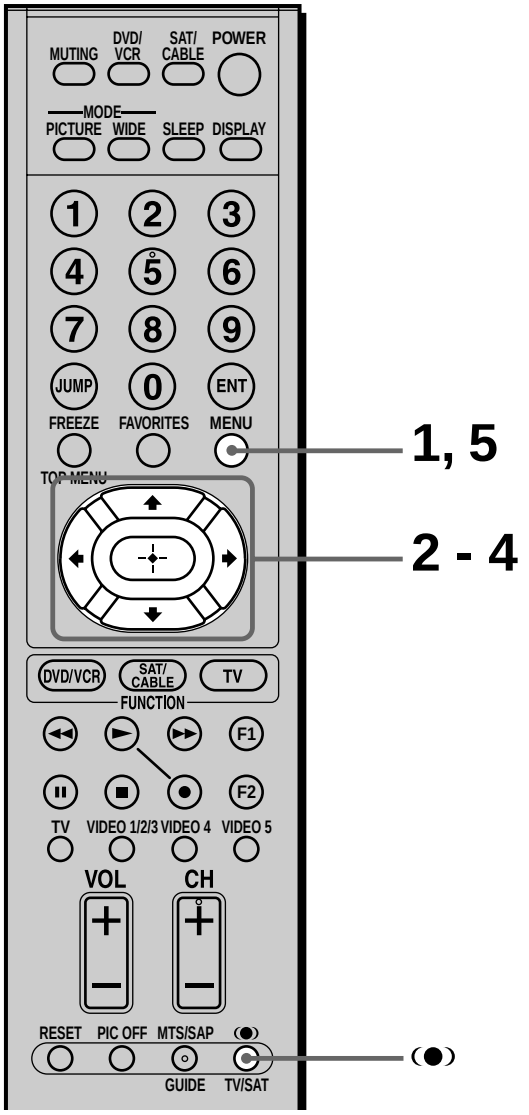
Tip

You can adjust the picture quality options, such as "Picture," "Brightness," and "Color," for each Picture Mode (see pages 59, 60).

Selecting the Effect Mode

"TruSurround*" approximates the surround effect produced by a multichannel system by using the left and right speakers.
You can set the Effect mode for each video input that can be selected using the Input Select buttons, and store them in memory.

* TruSurround, TruBass, SRS and the (●)® symbol are trademarks of SRS Labs, Inc. TruSurround and TruBass technologies are incorporated under license from SRS Labs, Inc.



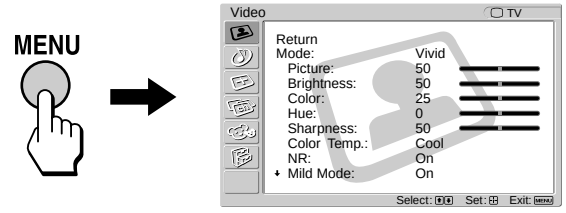
Notes

- You cannot select the Effect mode if "Speaker" in the (Audio) menu is set to "Off."
- The Effect mode is valid only on the TV's speakers and on headphones. So you cannot enjoy sound effects of TruSurround when you listen to a program through the AUDIO OUT jacks.
- TruSurround may be restricted in the effects it produces when you listen to a program in monaural.

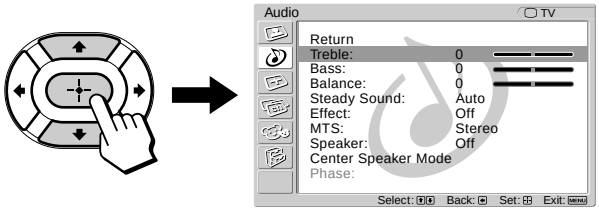
Tip

You can adjust other sound quality options. For details, see "Adjusting the Sound Quality" on page 61.

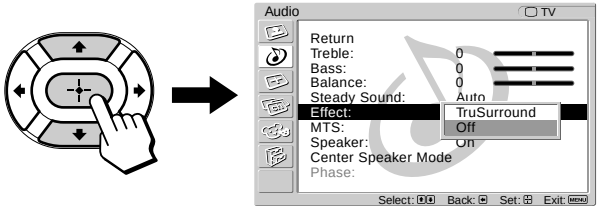
1 Press MENU.



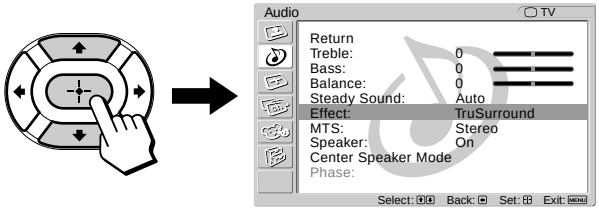
2 Press ↑/↓ to select (Audio), then press ⊕.



3 Press ↑/↓ to select "Effect," then press ⊕.



4 Press ↑/↓ to select "TruSurround," then press ⊕.



5 Press MENU to exit the menu screen.

Tip

Pressing the (●) button also lets you select "TruSurround" and "Off."

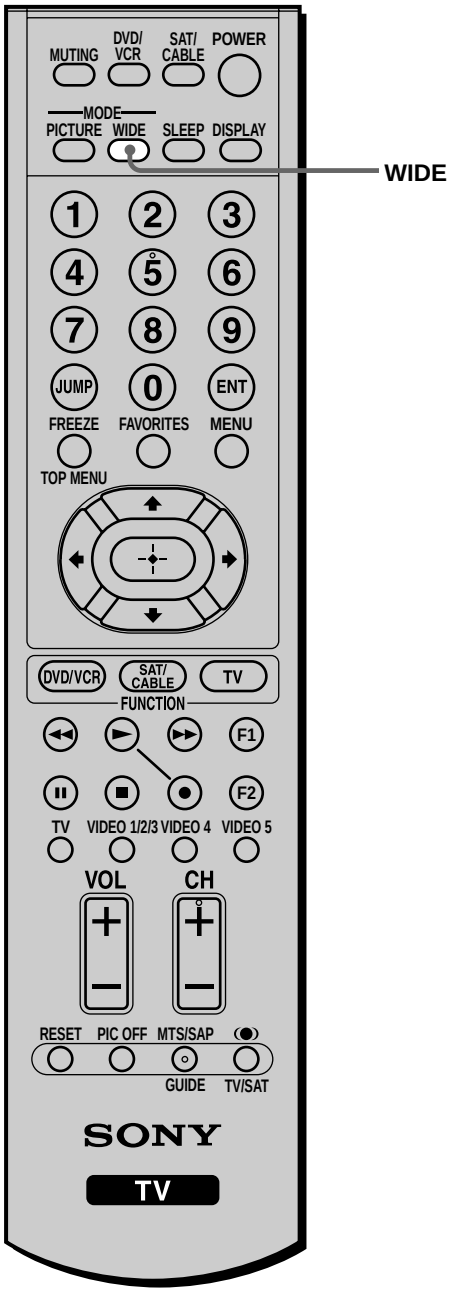
Using the Wide Screen Mode

The Wide Screen Mode lets you watch any signals or other picture sizes such as Letterbox in several Wide Screen Modes (16:9 aspect ratio).

Tip

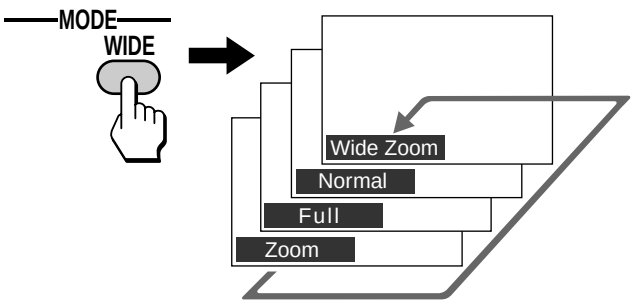
The “aspect ratio” is the ratio of width to height of the screen. 16:9 is also referred to as widescreen format.

Changing the Wide Screen Mode

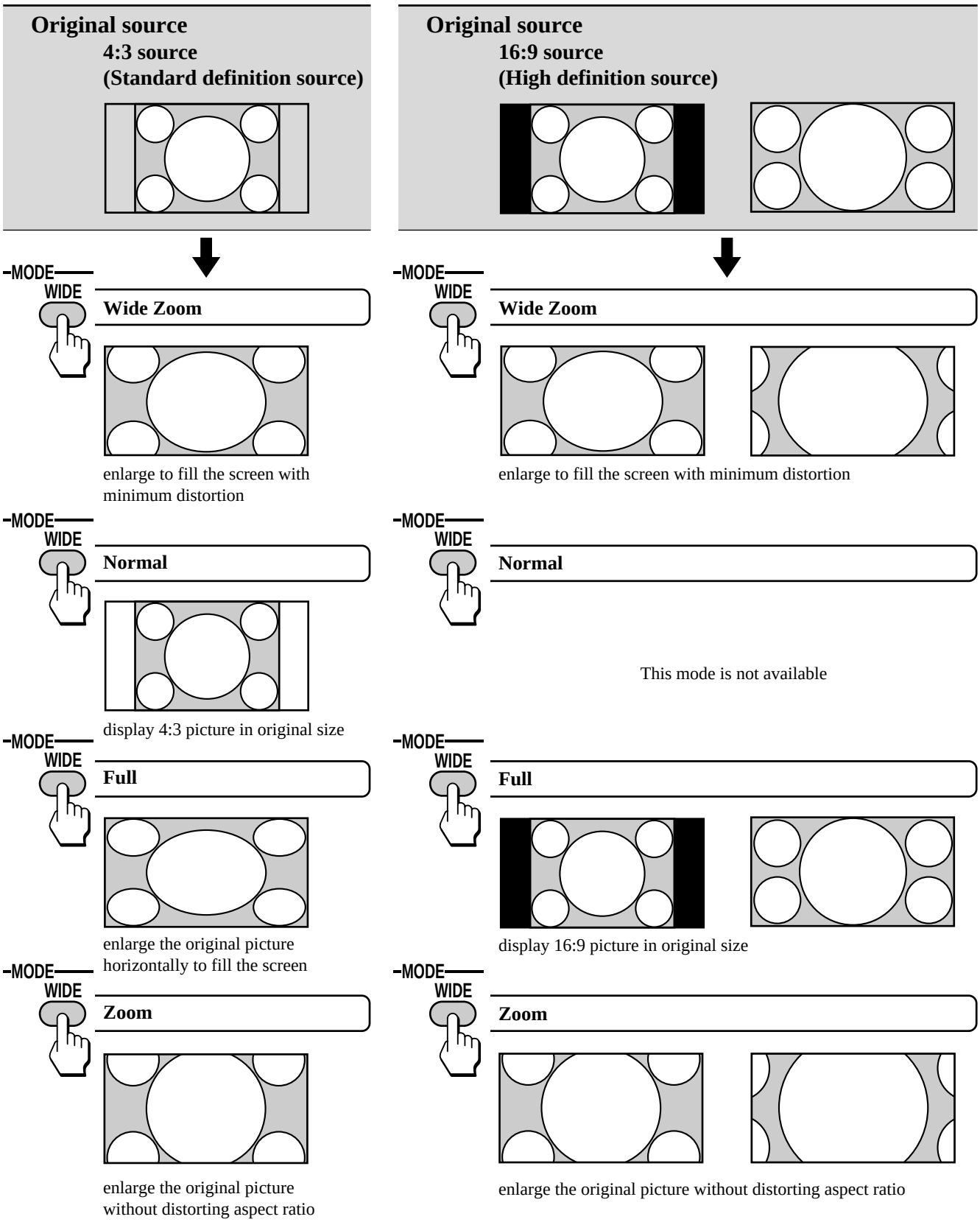


Press WIDE repeatedly until the desired Wide Screen Mode appears.

Each time you press the button, the Wide Screen Mode changes as follows:



Changing the Wide Screen Mode



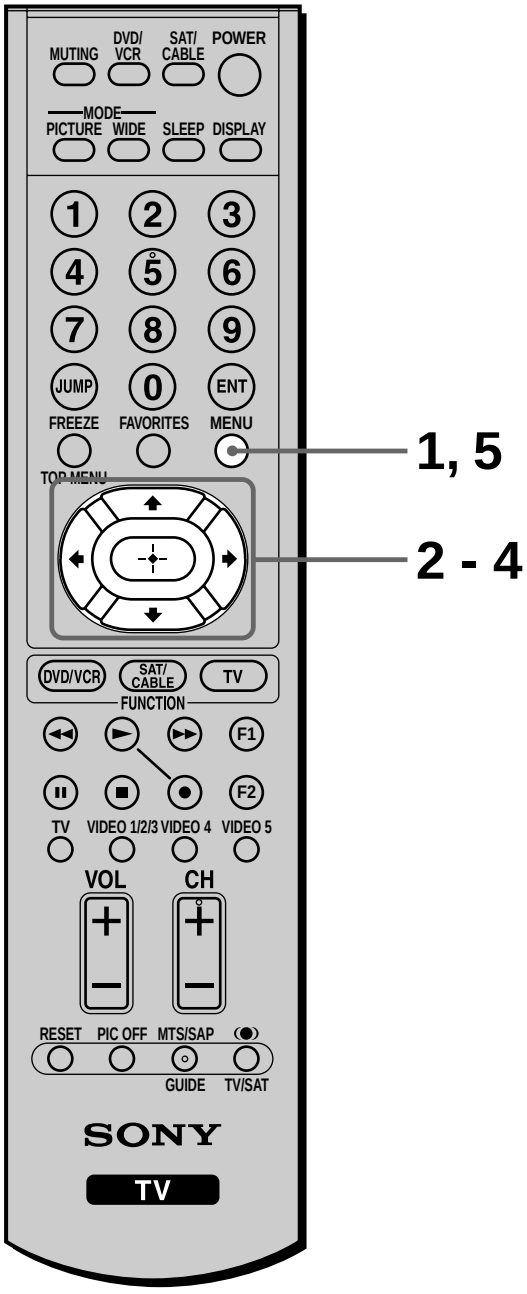
Note

When the TV receives a 720p or 1080i signal, “Normal” cannot be selected.

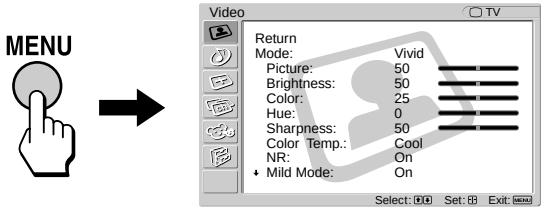
Tips

- When the TV receives a 720p or 1080i signal that is 4:3 aspect ratio picture with a black bar at each side, “Full” returns the picture to its original size.
- You can also access the Wide Screen Mode settings in the (Screen) menu. For details, see page 46.

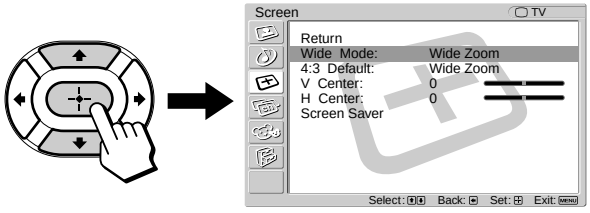
Changing the Wide Screen Mode using the menu



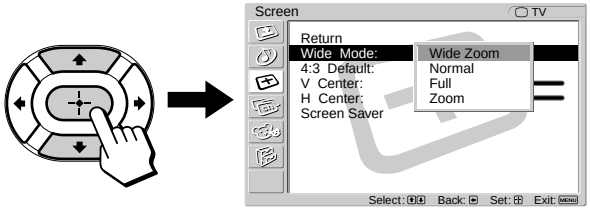
1 Press MENU.



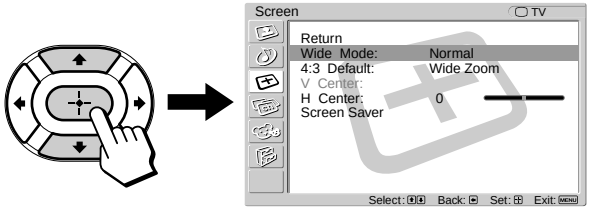
2 Press ↑/↓ to select (Screen), then press .



3 Press ↑/↓ to select the option you want to set, then press .



4 Press ↑/↓ to select the desired screen mode, then press .



5 Press MENU to exit the menu screen.

The Wide Screen Mode options available in the (Screen) menu

Option		Description
Wide Mode Select a Wide Mode to use for 4:3 sources.	Wide Zoom	Select to enlarge to fill the screen with minimum distortion.
	Normal	Select to display 4:3 picture in original size when the original source is 4:3 (Standard definition source).
	Full	Select to enlarge the original picture horizontally to fill the screen when the original source is 4:3 (Standard definition source). When the original source is 16:9 (High definition source), select this mode to display 16:9 picture in original size.
	Zoom	Select to enlarge the original picture without distorting the aspect ratio.
4:3 Default Select the default Screen Mode to use for 4:3 sources.	Wide Zoom	Select to enlarge the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.
	Normal	Select to return the 4:3 picture to its original size.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the 16:9 screen.
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the 16:9 screen. Useful for watching Letterbox movies.
	Off	Select to continue using the current Wide Screen Mode setting when the channel or input is changed.

Tip

To change from one Wide Screen Mode to another, use the WIDE button on the remote control.

Notes

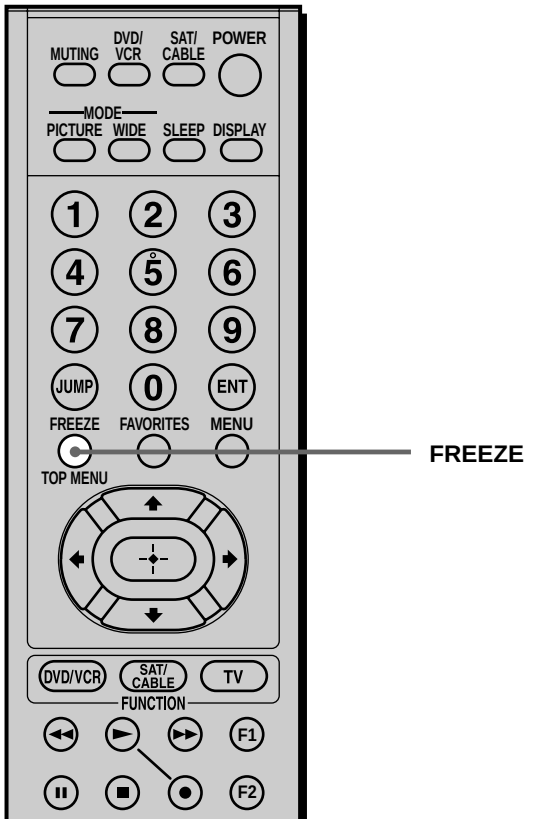
- The 4:3 Default functions only when the TV receives 480i or 480p signals.
- If “4:3 Default” is set to anything but “Off,” the Wide Screen Mode setting changes only for the current channel.
  When you change channels (or inputs), the Wide Screen Mode is automatically replaced with the 4:3 Default setting.
  To retain the current Wide Screen Mode setting as channels and inputs are changed, set “4:3 Default” to “Off.”

Notes on the Wide Screen Mode

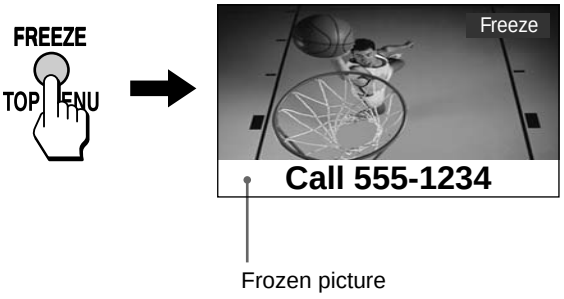
- The Wide Screen Mode function of this TV allows for various display options: select the appropriate Wide Screen Mode for the original aspect ratio of the picture you are watching.
- If you change the screen size using the Wide Screen Mode feature with the TV installed in a public space for commercial use or public purpose, it might be an infringement of copyright.
- If you select “Wide Zoom” when watching the picture with 4:3 aspect ratio, part of the picture is distorted. You can watch the picture with its original aspect ratio in “Normal” mode.
- The upper and lower parts of the picture may not appear in the screen according to the size of the original picture. In this case, adjust the picture position (see pages 57, 58).

Using the Freeze Function

You can use this feature to write down information such as phone numbers, recipes, etc.



When the program information you want to capture is displayed, press FREEZE.
The picture freezes. Press FREEZE again, and the frozen picture is released, and the picture begins to move again.

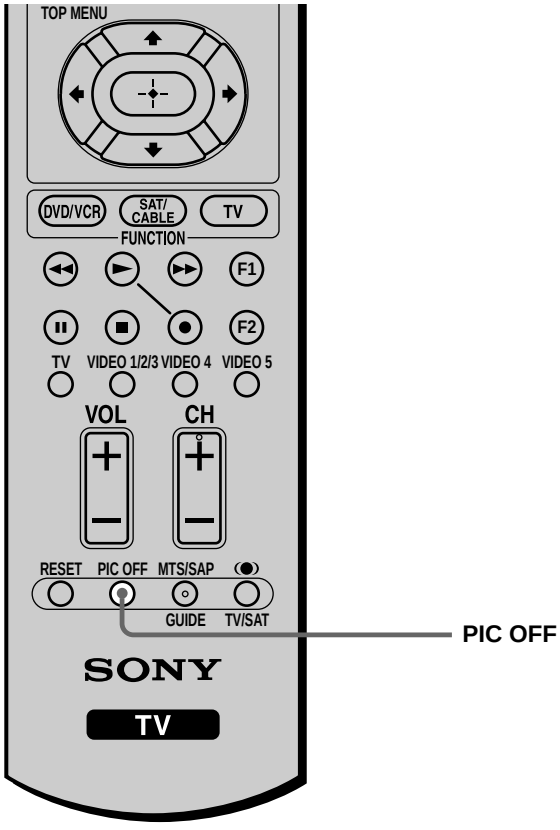


Tips

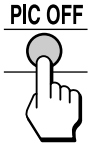
- While the picture is frozen, the sound continues to be output normally.
- The frozen picture is released after 5 minutes.

Using the Picture Off Function

The Picture Off function lets you enjoy music from radio programs of digital broadcasts or DVDs with the TV screen turned off.



Press PIC OFF.
The ⊠ (Picture off) LED lights up in blue and the screen turns off.

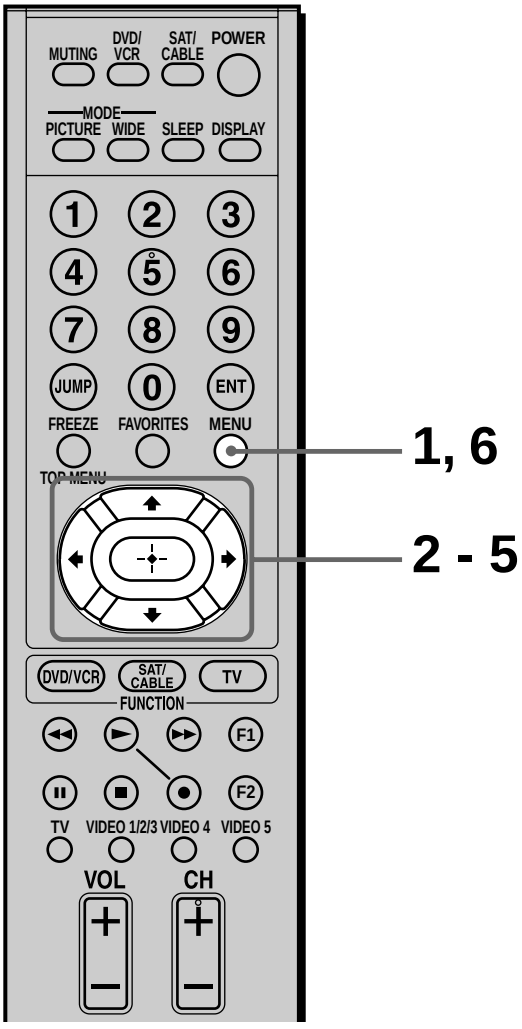


To cancel and return to normal viewing, press any button except for VOL +/–, POWER, MUTING, MTS/SAP, and Effect.

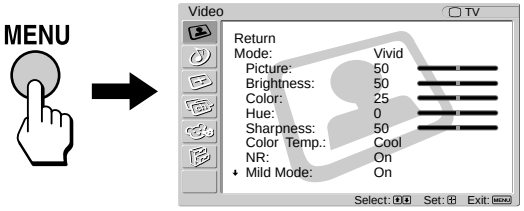
Using the Center Speaker Feature

You can use the TV's speakers as the center speaker of your audio system and control its sound volume from the remote control of the TV.

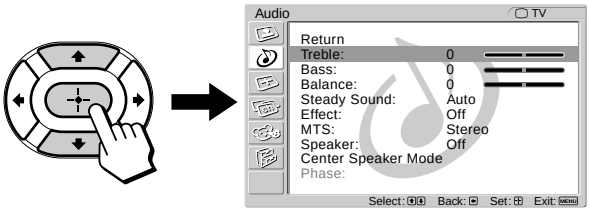
Setting the Center Speaker Mode



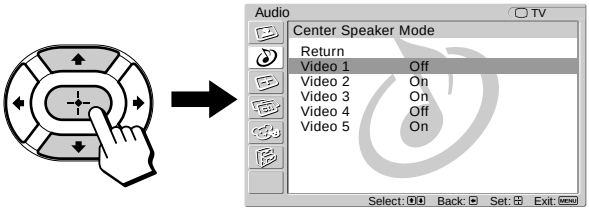
1 Press MENU.



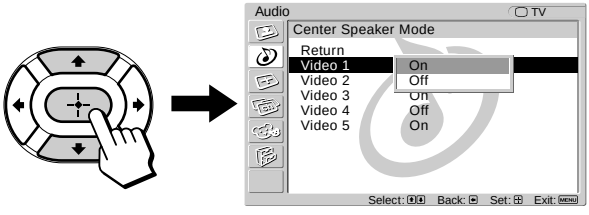
2 Press ↑/↓ to select (Audio), then press .



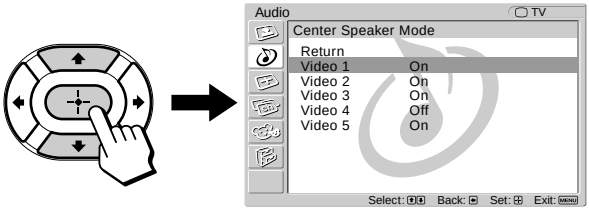
3 Press ↑/↓ to select "Center Speaker Mode" then press .



4 Press ↑/↓ to select the video input (Video 1-5) you want to use the TV's speakers as the center speaker, then press .



5 Press ↑/↓ to select "On," then press .



6 Press MENU to exit the menu screen.

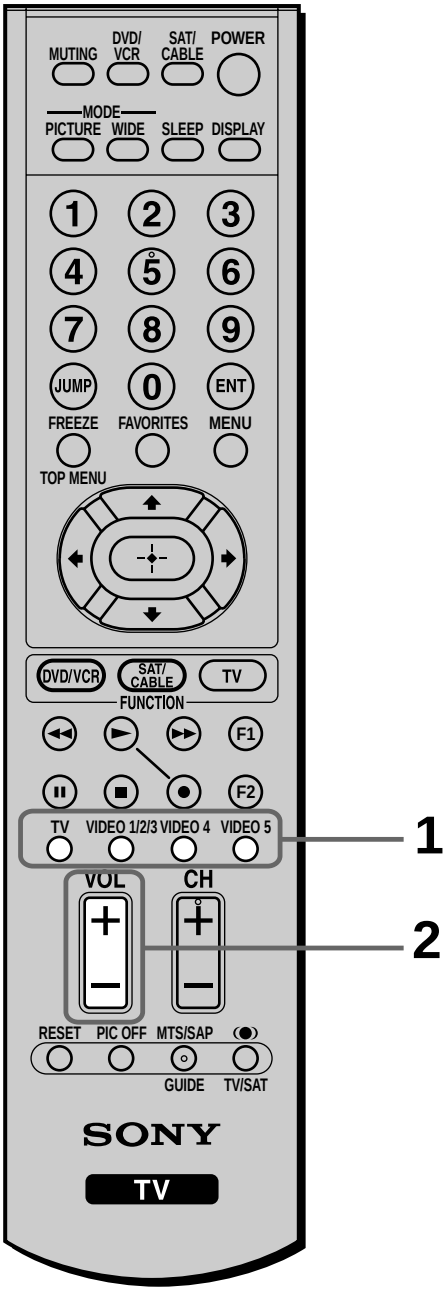
To return to the normal speaker mode

Select "Off" in step 5 above.

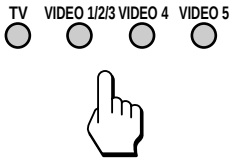
Note

When "Center Speaker Mode" is set to "On," "Treble," "Bass," "Balance," "Steady Sound," "Effect," "MTS," "Speaker," and "Audio Out" cannot be selected.

Listening to the center speaker sound from the TV's speakers



1 Press the Input Select buttons (VIDEO 1/2/3, VIDEO 4 or VIDEO 5) to select the video input selecting "Center Speaker Mode."



2 Press VOL +/– to adjust the volume of the center speaker sound from the TV's speakers.

Note

If nothing is connected to the TV's CENTER SPEAKER IN terminals or if the sound source emitted from the amplifier does not contain the center speaker channel, no sound is heard from the TV's speakers.

Tip

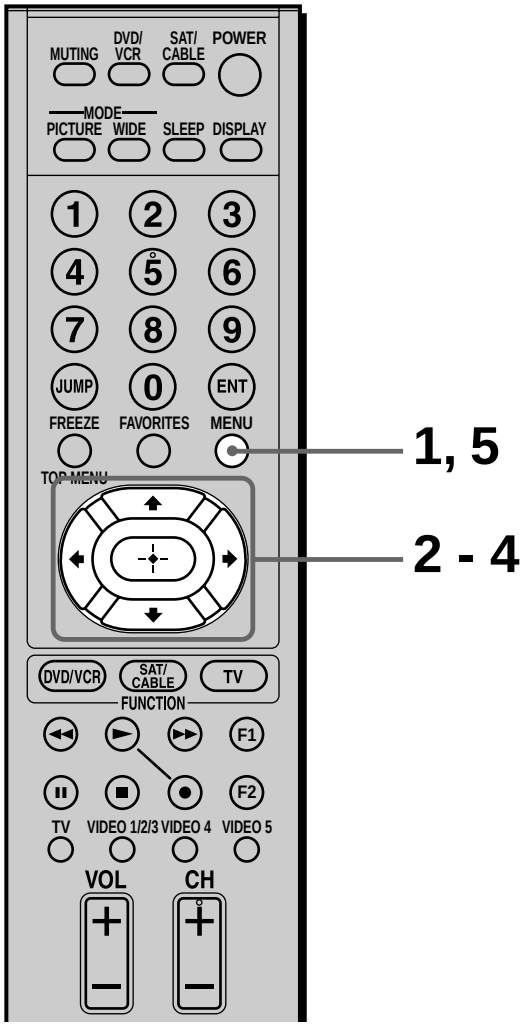
When you want to fine tune the volume of the center speaker sound from the TV's speaker according to the input source (Video input 1,2,3,4 and 5) and your preference, follow the above steps.

Adjusting the phase of the sound

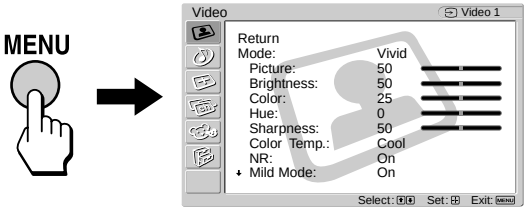
You can adjust the phase of sound when using the TV's speakers as the center speaker. If sound from the TV's speakers (as the center speaker) sound unnatural, select "Reverse."

Note

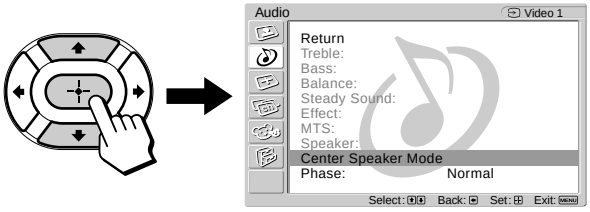
Default setting is "Normal."



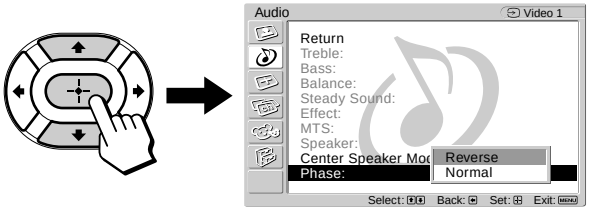
1 Press MENU.



2 Press ↑/↓ to select (Audio), then press .



3 Press ↑/↓ to select "Phase" then press .

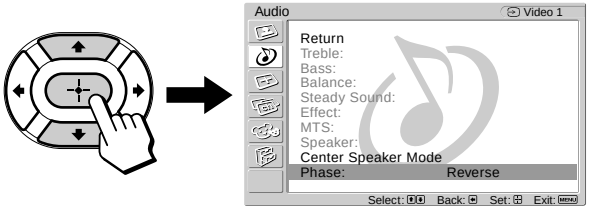


Tip

If you cannot select "Phase," change the input to the video input selected in "Center Speaker Mode."

4 Press ↑/↓ to select "Reverse," then press .

The sound from the TV's speakers is phase-reversed.



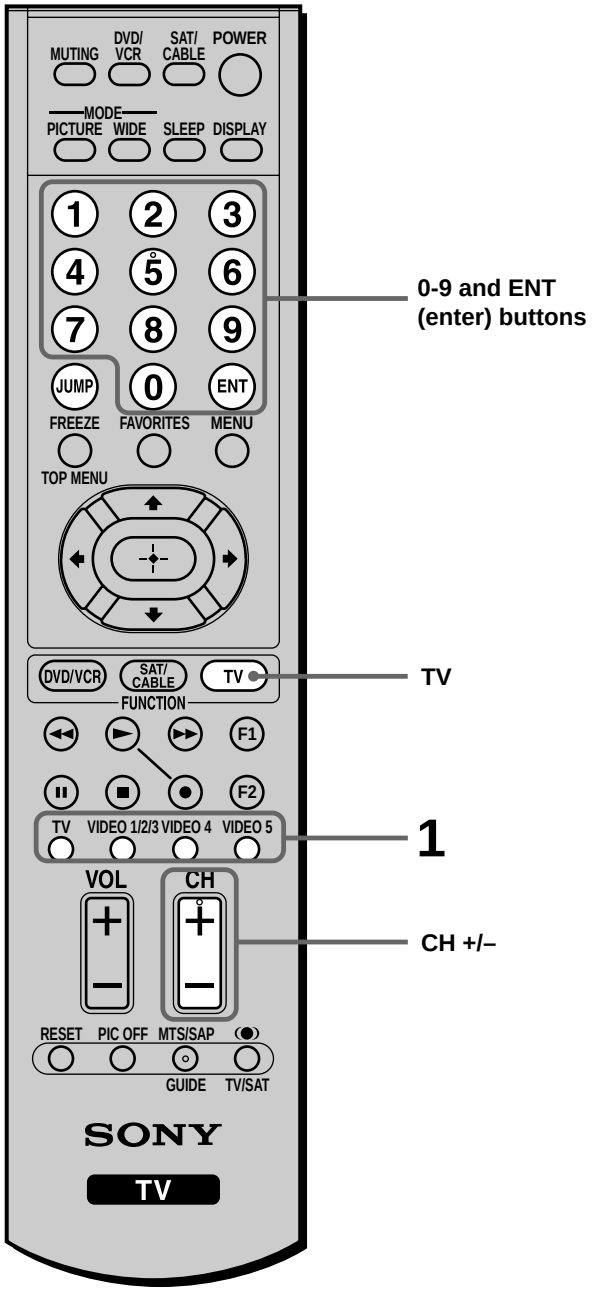
5 Press MENU to exit the menu screen.

Note

"Phase" cannot be selected when "Center Speaker Mode" is set to "Off."

Setting the Video Inputs

You can enjoy images (and sound) from optional video equipment connected to this unit by selecting the appropriate input. For details on connection, see pages 21 through 34.



1 For video input 1, 2 and 3

Press VIDEO 1/2/3 repeatedly until the desired video input appears.
Each time you press VIDEO 1/2/3, the input changes as follows.

Select	Display indication
• VIDEO 1 IN	Video 1
• VIDEO 2 IN	Video 2
• VIDEO 3 IN	Video 3

For video input 4 (HD/DVD 4 IN)

Press VIDEO 4.
"Video 4"* indication appears.

For video input 5 (HDMI 5 IN)

Press VIDEO 5.
"Video 5"* indication appears.

* The type of picture signal (480i, 480p, 720p, or 1080i) appears under "Video 4" and "Video 5."

Tips

- When "Skip" is selected as a label using "Video Label" in the (Setup) menu, the selected input will be skipped in the cycle (see page 53).
- You can also select the inputs by using the INPUT button on the TV.

TV → VIDEO 1 IN → VIDEO 2 IN → VIDEO 3 IN
HDMI 5 IN ← HD/DVD 4 IN ←

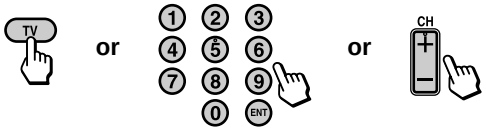
- When you have preset a label for each video input using "Video Label" in the (Setup) menu, the label will be displayed (see page 53).

2 Operate the selected optional equipment.

For details, see "Using your Remote Controls with Other Equipment" on page 16, or refer to the instructions supplied with each equipment.

To return to watching the TV

Press TV, any of 0-9 and ENT (enter) or CH +/–.

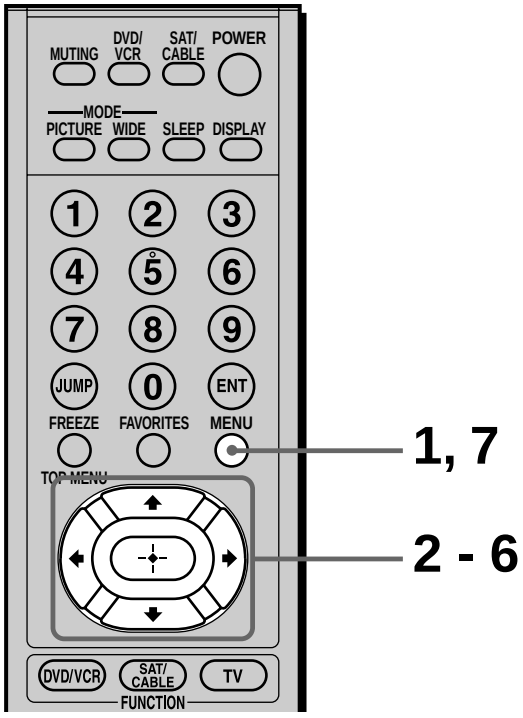


Using the Video Label and Skip Feature

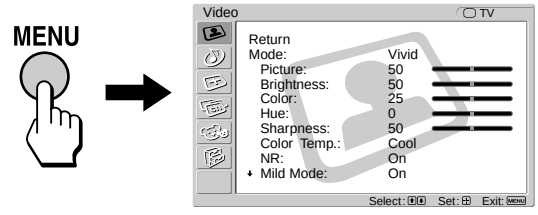
You can make settings for each video input by choosing the label displayed on the screen.

Tip

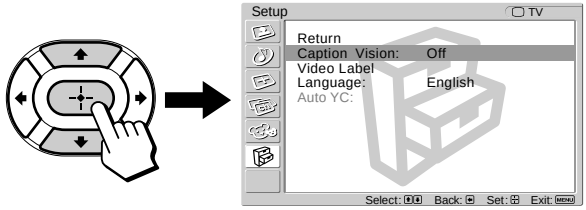
If you select “Skip,” your TV skips this input when you press the Input Select buttons.



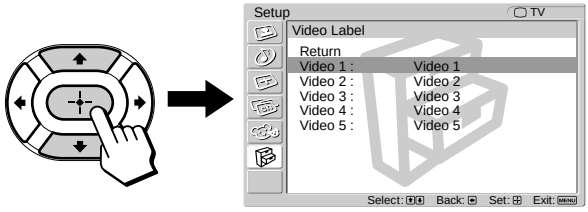
1 Press MENU.



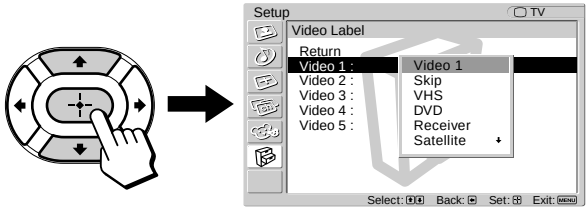
2 Press ↑/↓ to select (Setup), then press ⊕.



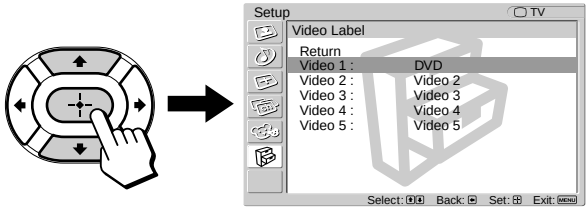
3 Press ↑/↓ to select “Video Label,” then press ⊕.



4 Press ↑/↓ to select the video input (Video 1-5) you want to assign a label, then press ⊕.



5 Press ↑/↓ to select the label, then press ⊕.



To skip the unused video input using the Input Select buttons

Press ↑/↓ to select “Skip.”

6 Repeat steps 4 and 5 to assign labels to more video inputs.

You can select from the following labels for each input.

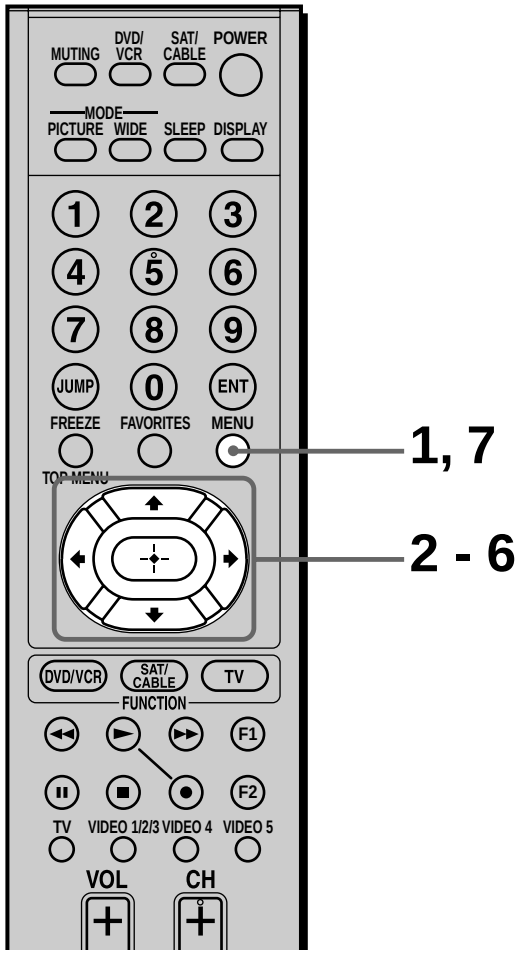
Video 1, 2, 3	Skip, VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Beta
Video 4, 5	Skip, DVD, Satellite, Cable Box, DTV, HD

7 Press MENU to exit the menu screen.

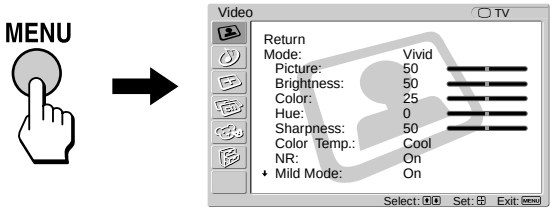
Using Favorite Channels

You can select program channels from a list of favorite channels that you preset.

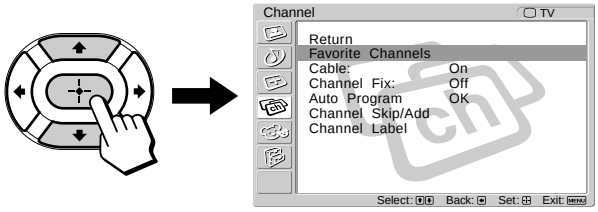
Setting your favorite channels



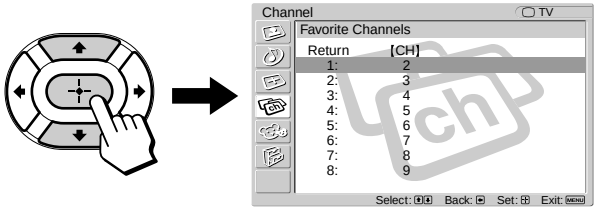
1 Press MENU.



2 Press ↑/↓ to select (Channel), then press .



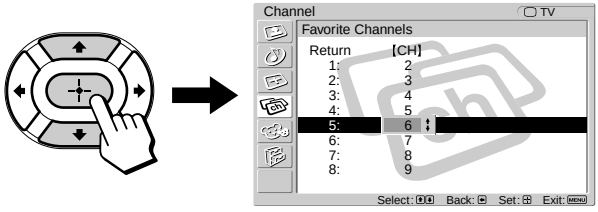
3 Press ↑/↓ to select “Favorite Channels,” then press .



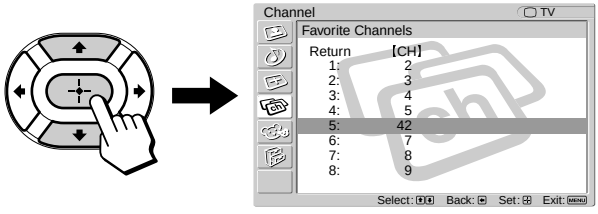
Tip

If you cannot select “Favorite Channels,” change the input to TV by pressing the TV button.

4 Press ↑/↓ to select the position you want to change, then press .



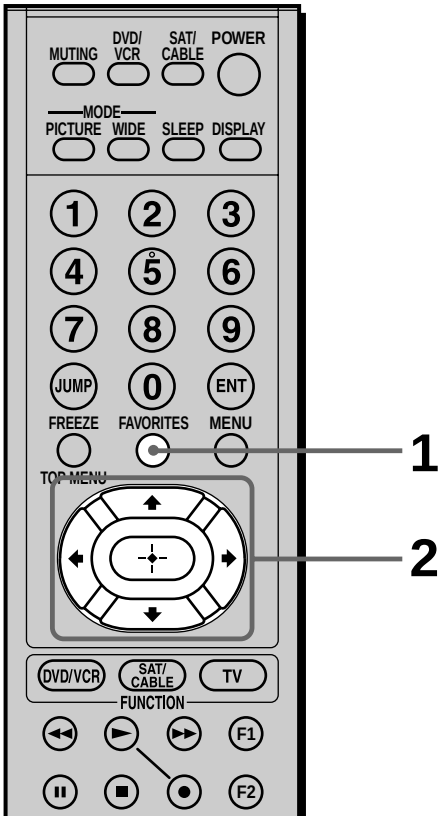
5 Press ↑/↓ to scroll through the channels until you find the desired channel, then press .



6 Repeat steps 4 and 5 to program other favorite channels.

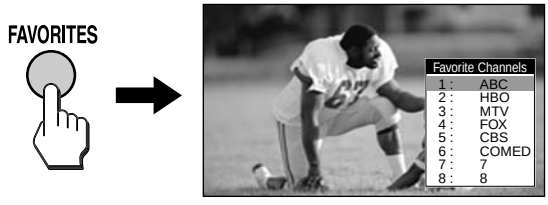
7 Press MENU to exit the menu screen.

Watching favorite channels



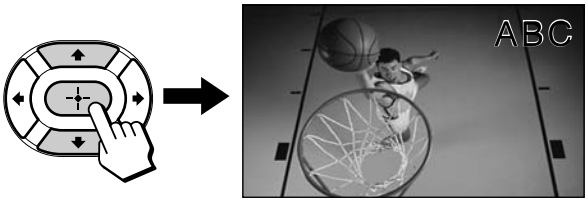
1 Press FAVORITES.

The Favorite Channels list appears.



2 Press ↑/↓ to select the desired channel, then press ⊕.

The selected channel will be displayed.

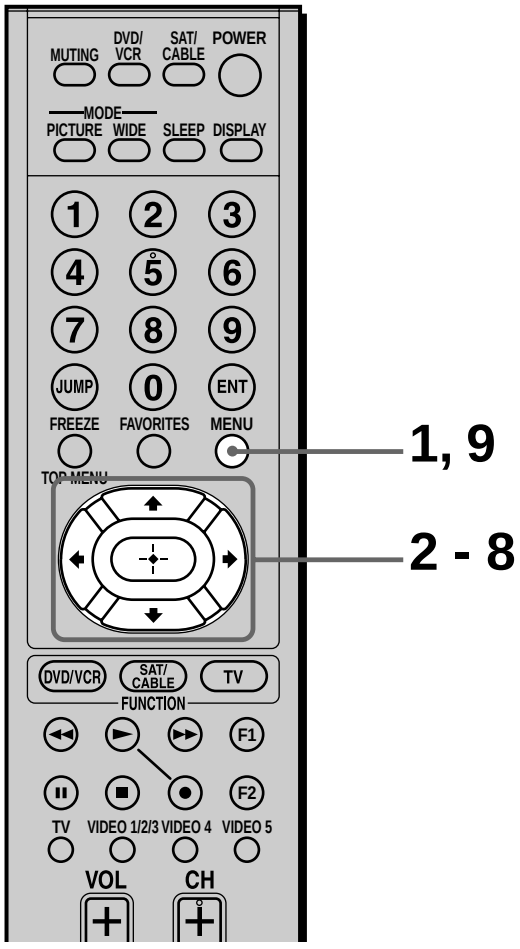


Tip

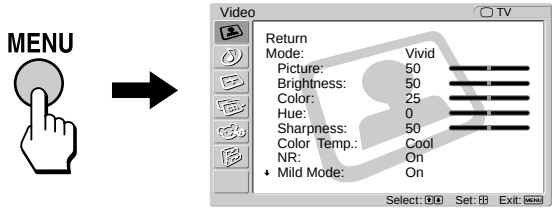
If you make an optional label using “Channel Label” in the CH (Channel) menu, that label will be displayed on the screen.

Using the Channel Label Feature

If you have set an optional label for the channel display or for Favorite Channels, you can have that label displayed on the screen.

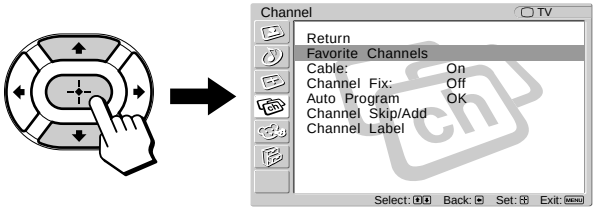


1 Press MENU.

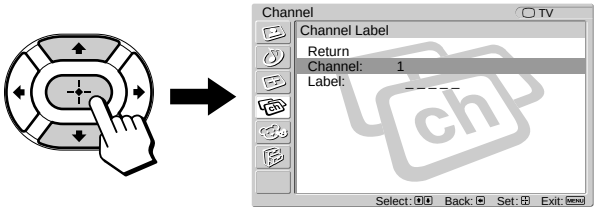


(Continued)

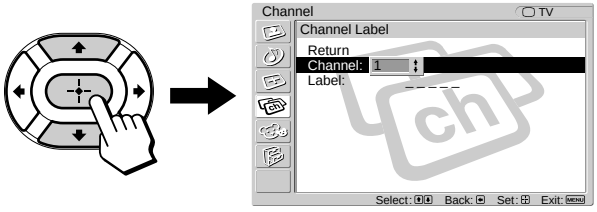
2 Press ↑/↓ to select (Channel), then press .



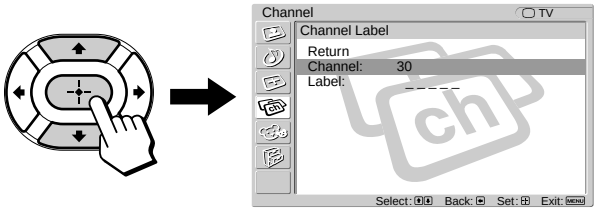
3 Press ↑/↓ to select “Channel Label,” then press .



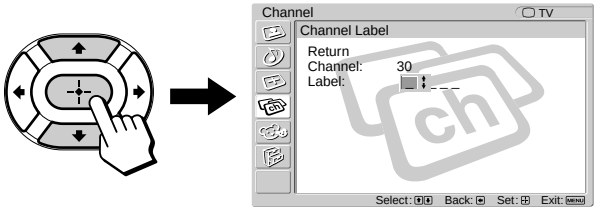
4 Press ↑/↓ to select “Channel,” then press .



5 Press ↑/↓ to scroll through the channel numbers you want to assign a label, then press .

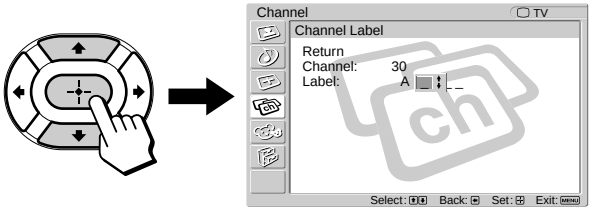


6 Press ↑/↓ to select “Label,” then press .



7 Press ↑/↓ to scroll through the label characters (A-Z, 0-9, etc.), then press .

You can add up to 5 characters to the label.



8 Repeat steps 4 - 7 to assign labels to more channels.

9 Press MENU to exit the menu screen.

Tip

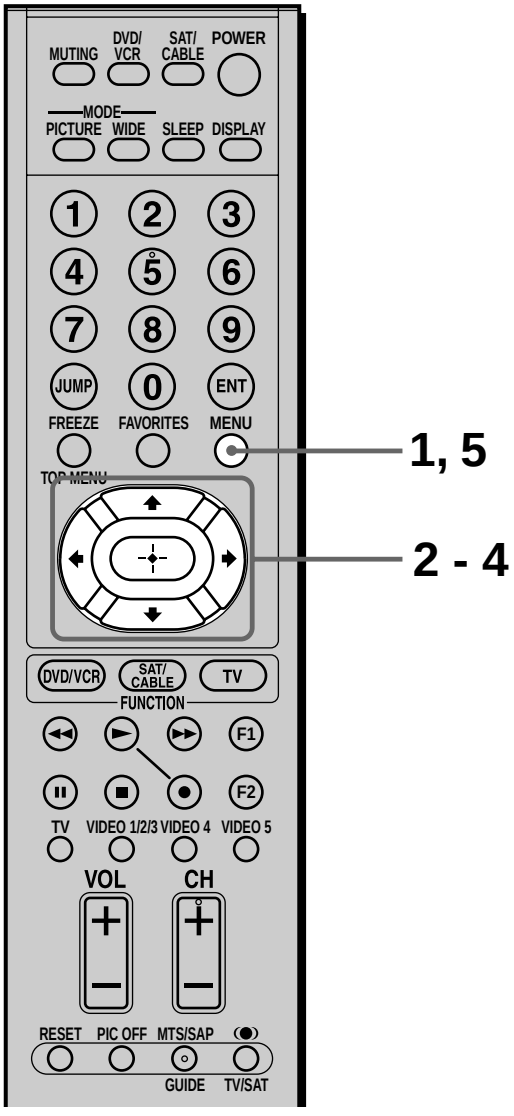
Press the RESET button to clear the channel label when you open the “Channel Label” option or “Label” option.

Using Advanced Features

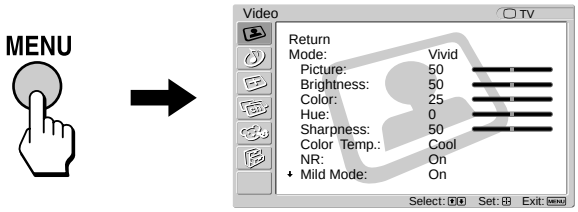
Adjusting the Picture Position Vertically

You can move the position of the picture up and down for each Wide Screen Mode (page 44) in the following cases:

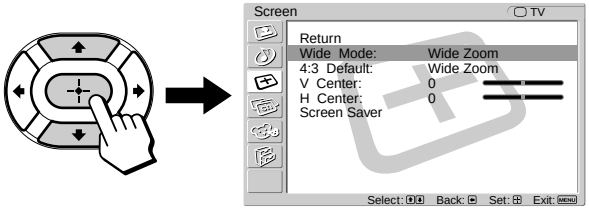
- To move the position of the picture in “Wide Zoom” and “Zoom” modes
- When subtitles may not fit in the screen



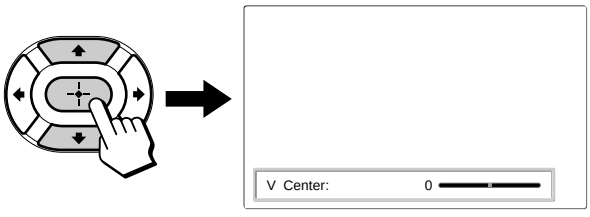
1 Receive the picture you want to adjust, then press MENU.



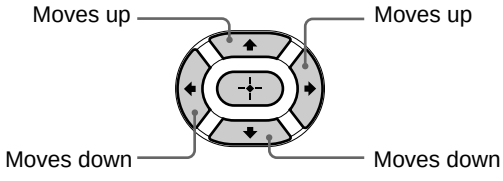
2 Press ↑/↓ to select (Screen), then press .



3 Press ↑/↓ to select “V Center,” then press .



4 Press ↑/↓/←/→ to adjust the position, then press .



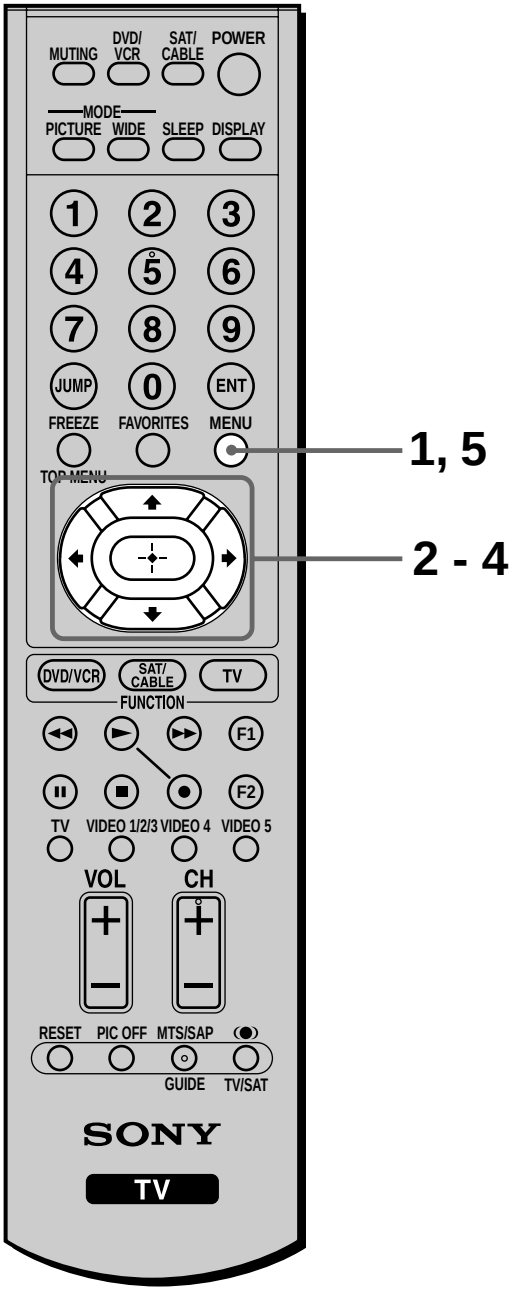
5 Press MENU to exit the menu screen.

Note

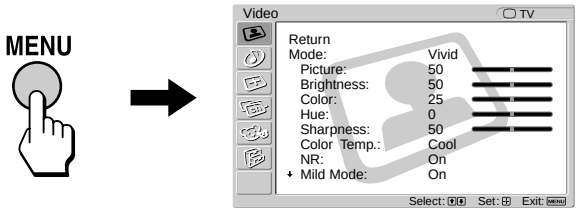
“V Center” cannot be adjusted when “Normal” or “Full” is selected in “Wide Mode.”

Adjusting the Picture Position Horizontally

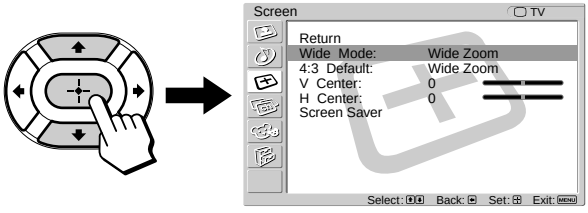
You can move the position of the picture left and right in the window. This function allows for horizontal adjustment of the picture being displayed.



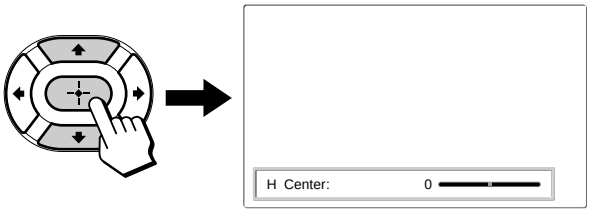
1 Receive the picture you want to adjust, then press MENU.



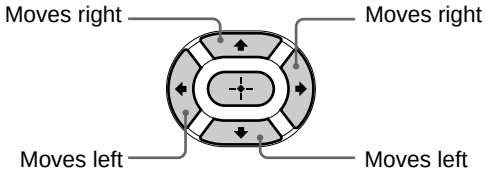
2 Press ↑/↓ to select (Screen), then press .



3 Press ↑/↓ to select "H Center," then press .



4 Press ↑/↓/←/→ to adjust the position, then press .



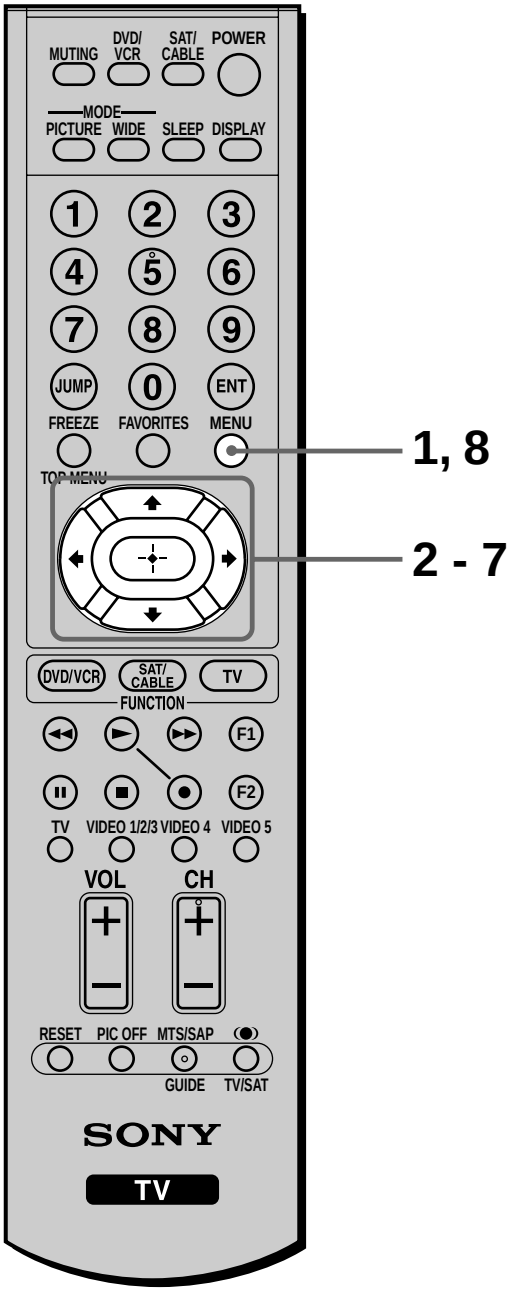
5 Press MENU to exit the menu screen.

Tips

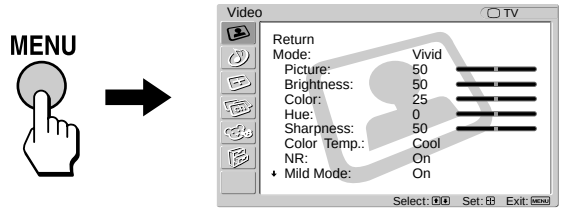
- "H Center" can be adjusted for every input setting.
- The "H Center" is useful if the TV is connected to game equipment.

Adjusting the Picture Quality

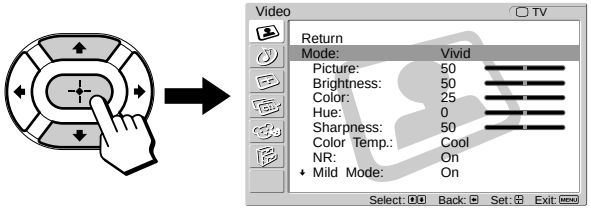
You can adjust the picture quality for each Picture Mode (“Vivid,” “Standard,” or “Pro”).
You can adjust the picture quality for each video input selected using the Input Select buttons, and store these adjustments in memory.



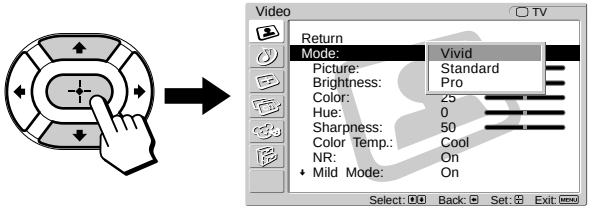
1 Press MENU.



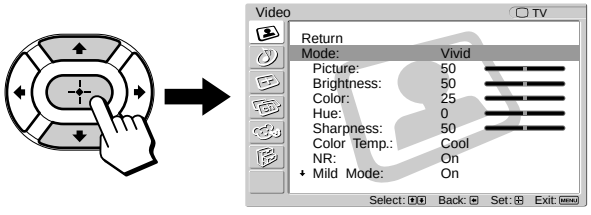
2 Press ↑/↓ to select (Video), then press .



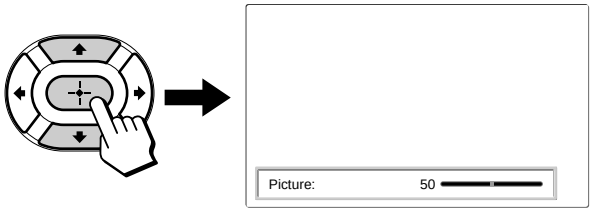
3 Press ↑/↓ to select “Mode,” then press .



4 Press ↑/↓ to select the Picture Mode you want to adjust, then press .

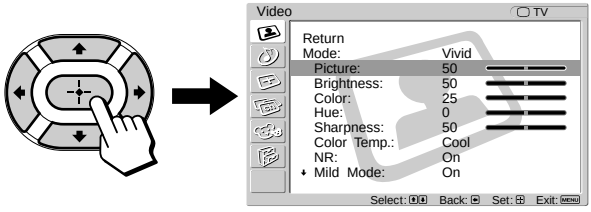


5 Press ↑/↓ to select “Picture,” then press .



(Continued)

6 Press ↑/↓/←/→ to make the desired adjustment, then press ⊕.



Adjustable options

Option	Press ↓/←	Press ↑/→
Picture*	To reduce picture contrast.	To enhance picture contrast.
Brightness*	To darken the picture.	To brighten the picture.
Color	To decrease color intensity.	To increase color intensity.
Hue**	To decrease the green tones.	To increase the green tones.
Sharpness	To soften the picture.	To sharpen the picture.

* Image retention is accelerated by higher "Brightness" and "Picture" settings. See page 3 for information on image retention and page 75 for image retention recovery information.

** Hue adjustment is not available for the following:
– 480i, 480p, 1080i and 720p signals input to HD/DVD 4 IN and HDMI 5 IN

Tips

- You can adjust each option by referring to the value beside each option indicator.
- The (Video) menu has a second scroll down screen.

Selective options

Option	Description	Setting
Color Temp. (Color Temperature)	Select to give the white colors a blue tint (Cool) or a red tint (Warm).	Cool/ Neutral/ Warm
NR (Noise Reduction)	Select to reduce the noise level of connected equipment. It is also effective on the signal from the VHF/UHF jack.	On/Off
Mild Mode	Select for a natural, soft picture.	On/Off
Dynamic Picture	Select to enhance the picture contrast.	On/Off
CineMotion	Select to provide an optimized display by automatically detecting film content. Moving pictures will become clearer and more natural. When the superimposed text on the film content appears corrupted, set "CineMotion" to "Off."	On/Off

Tip

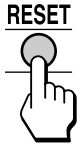
"CineMotion" is only available for 480i input signal from VHF/UHF, VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN, HD/DVD 4 IN and HDMI 5 IN.

7 Repeat steps 5 and 6 to adjust other options.

8 Press MENU to exit the menu screen.

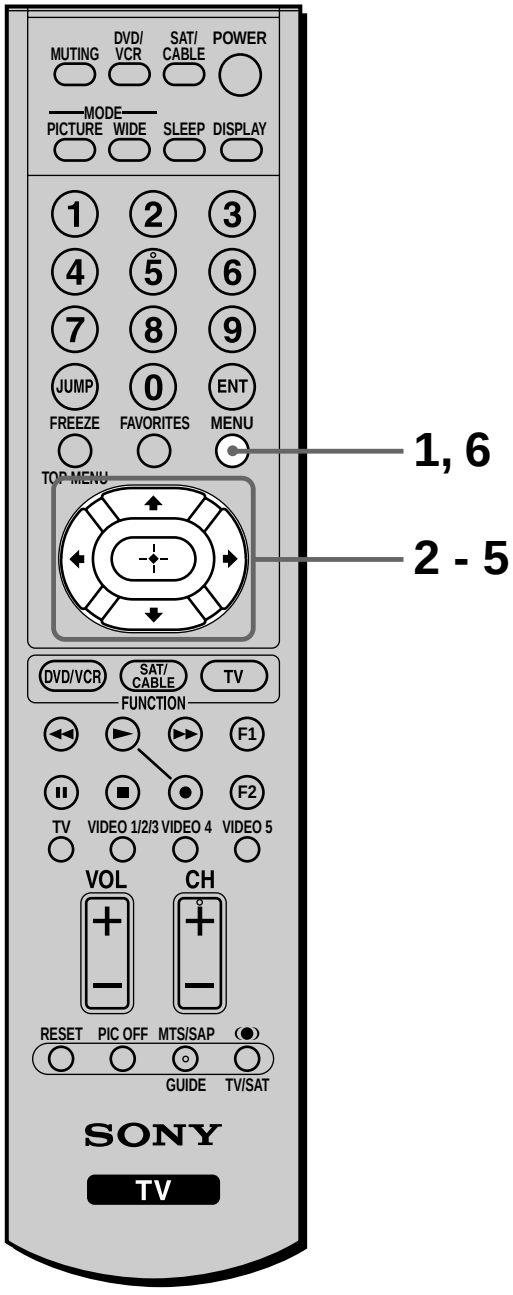
To reset to the factory settings

Press RESET while the menu is on the screen and the cursor is located on the right side of any menu item. When the pop-up window or bar indication is displayed, only the menu item being adjusted is reset to the factory setting.

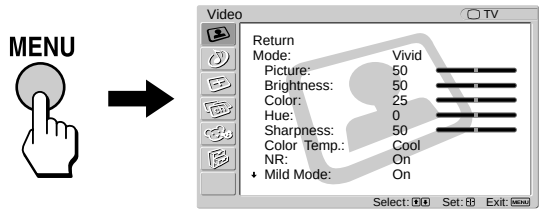


Adjusting the Sound Quality

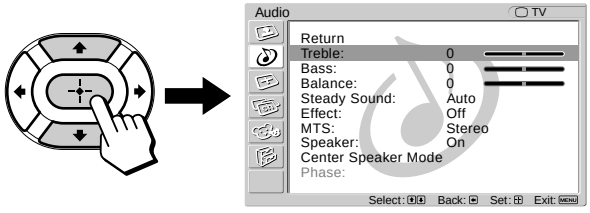
You can adjust the sound quality for each video input selected using the Input Select buttons, and store these adjustments in memory.
For details on the Effect mode, see page 43.



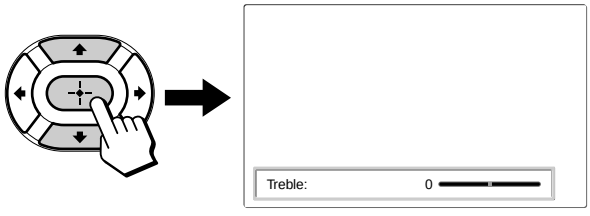
1 Press MENU.



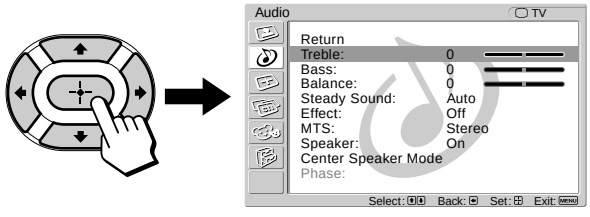
2 Press ↑/↓ to select (Audio), then press ⊕.



3 Press ↑/↓ to select the option you want to adjust, then press ⊕.



4 Press ↑/↓/←/→ to make the desired adjustment, then press ⊕.



(Continued)

Adjustable options

Option	Press ↓/←	Press ↑/→
Treble*	To decrease higher-pitched sounds.	To increase higher-pitched sounds.
Bass*	To decrease lower-pitched sounds.	To increase lower-pitched sounds.
Balance*	To emphasize the left speaker.	To emphasize the right speaker.

Selective options

Option	Description	Setting
Steady Sound*	Select to stabilize the volume.	Auto/Off
Effect**	See page 43.	

* To adjust any of these options, set “Speaker” in the (Audio) menu to “On,” or “Audio Out” to “Variable” first.

** To adjust the option, set “Speaker” in the (Audio) menu to “On” first.

Tip

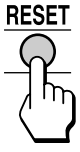
You can adjust each option by referring to the value beside each option indicator.

5 Repeat steps 3 and 4 to adjust other options.

6 Press MENU to exit the menu screen.

To reset to the factory settings

Press RESET while the menu is on the screen and the cursor is located on the right side of any menu item. When the pop-up window or bar indication is displayed, only the menu item being adjusted is reset to the factory setting.

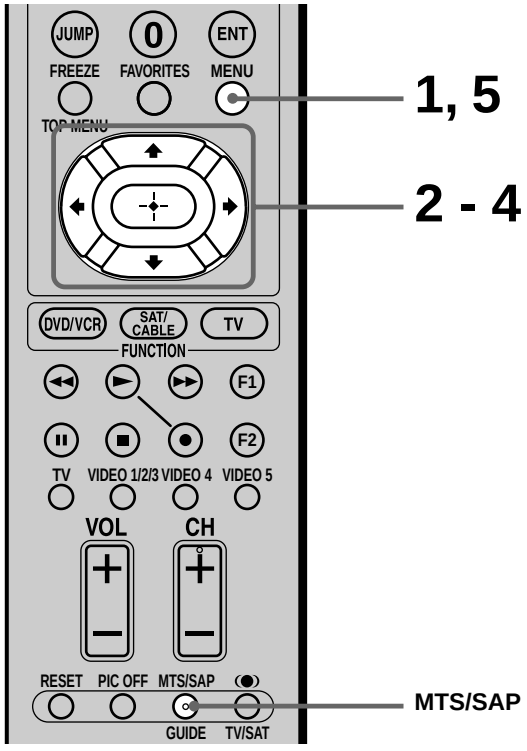


Note

Resetting the unit to the factory settings resets only “Treble,” “Bass” and “Balance.”

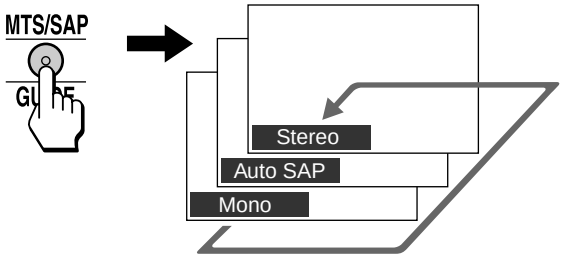
Selecting Stereo or Bilingual Programs

You can enjoy stereo, bilingual and mono programs.



Press MTS/SAP repeatedly until the desired sound indication appears.

Each time you press the button, the sound indication changes as follows:

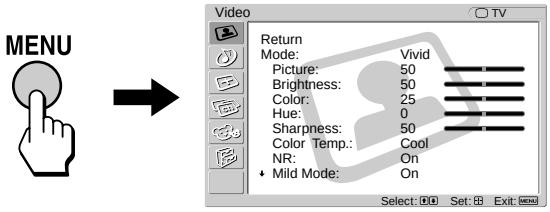


Sound indication*	Description
Stereo	Select for stereo reception when viewing a program broadcast in stereo.
Auto SAP	Select to automatically switch the TV to second audio programs when a signal is received. (If no SAP signal is present, the TV remains in Stereo mode.)
Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)

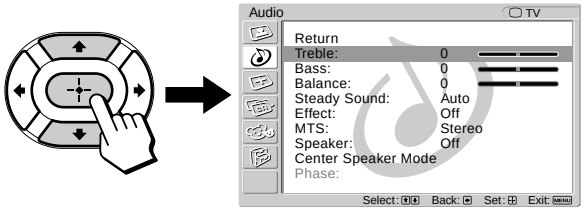
* This is available only for TV broadcasting.

Selecting stereo or bilingual programs using the menu

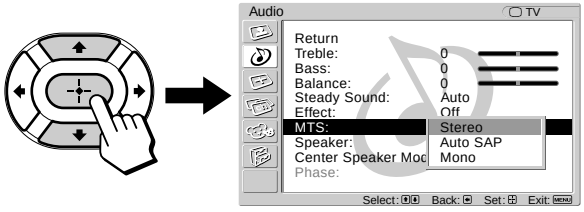
1 Press MENU.



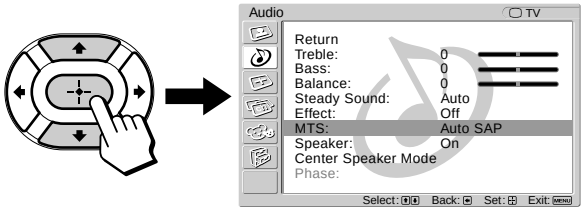
2 Press ↑/↓ to select (Audio), then press .



3 Press ↑/↓ to select "MTS," then press .



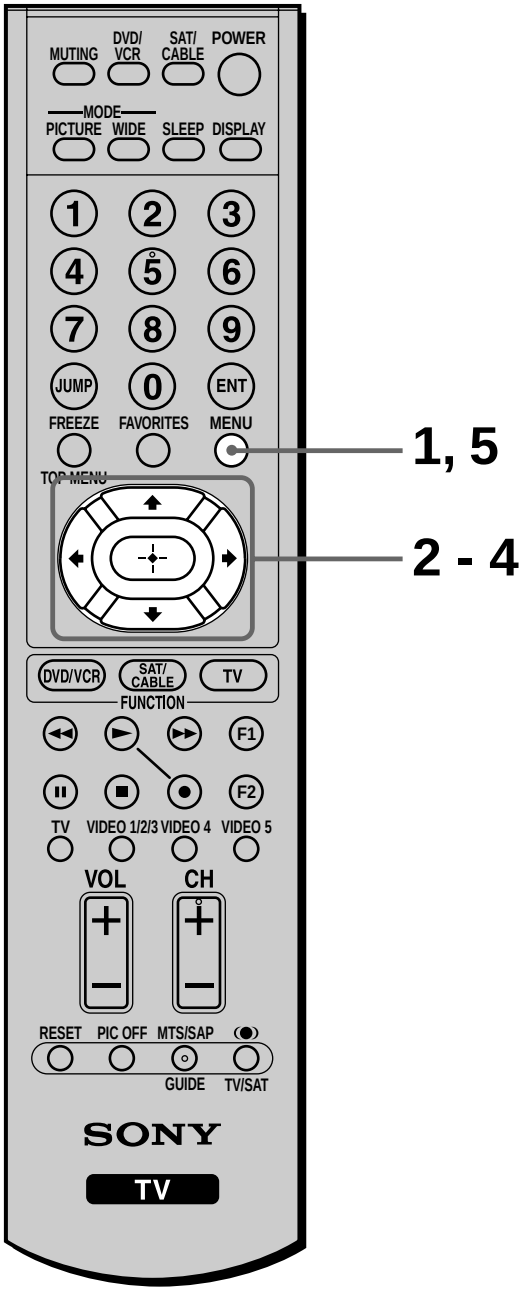
4 Press ↑/↓ to select the desired reception, then press .



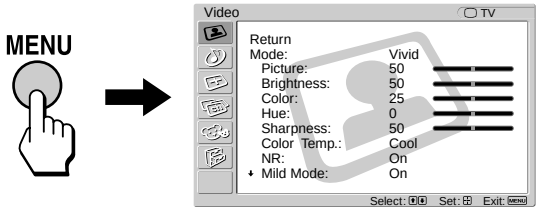
5 Press MENU to exit the menu screen.

Selecting the TV Speakers or an External Amplifier to Listen to the TV

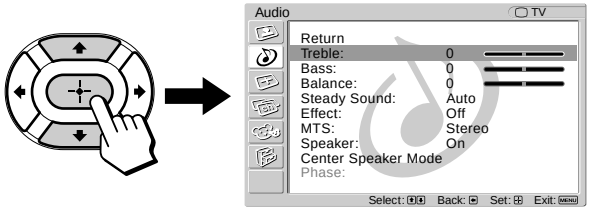
You can select if you want to listen to the TV from the TV speakers or from an external amplifier connected to the TV's audio outputs.



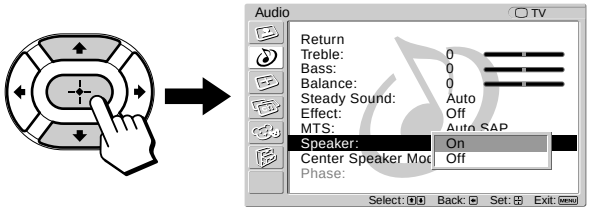
1 Press MENU.



2 Press ↑/↓ to select (Audio), then press .

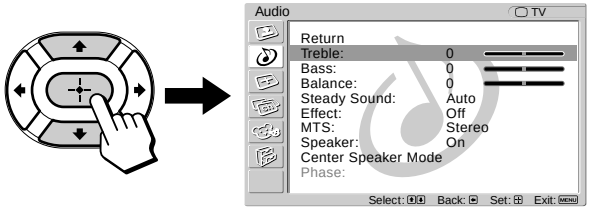


3 Press ↑/↓ to select "Speaker," then press .



Option	Description	
Speaker	On	Select to turn on the TV speakers.
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.

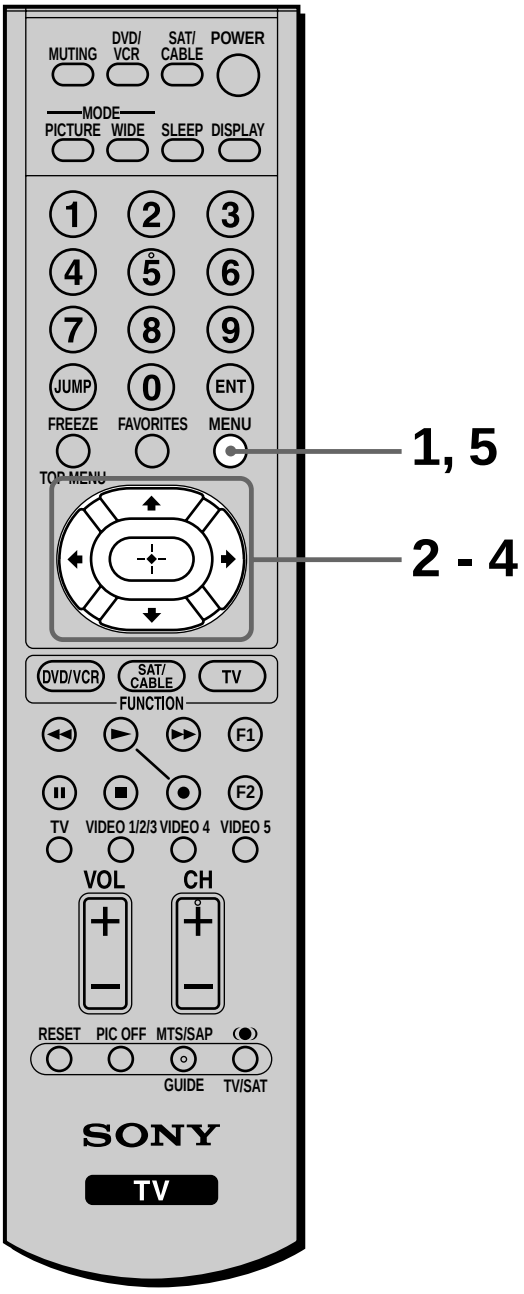
4 Press ↑/↓ to select the desired option, then press .



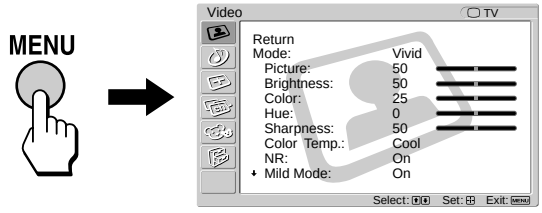
5 Press MENU to exit the menu screen.

Selecting How to Control the Volume of the TV's Speakers

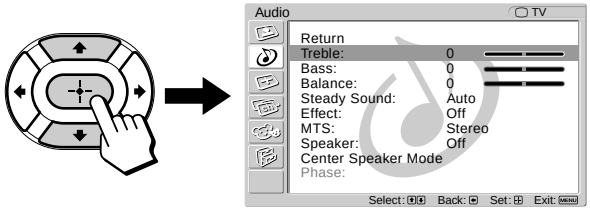
You can select how to control the volume of the TV's speakers when an external amplifier is connected to the TV's audio outputs.



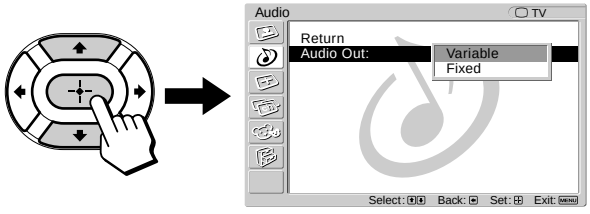
1 Press MENU.



2 Press ↑/↓ to select (Audio), then press .

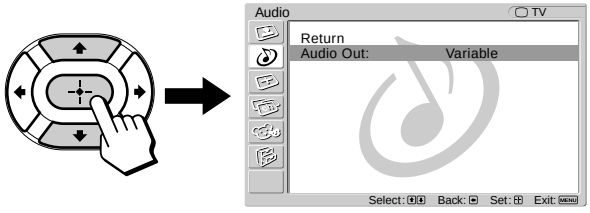


3 Press ↑/↓ to select "Audio Out," then press .



Option	Description	
Audio Out (Easy control of volume adjustments)	Variable	The TV's speakers are turned off, but the audio output from your audio system can still be controlled by the TV's remote control.
	Fixed	The TV's speakers are turned off and the audio output of the TV is fixed. Use your AV receiver's remote control to adjust the volume (and other audio settings) through your audio system.

4 Press ↑/↓ to select the desired option, then press .



5 Press MENU to exit the menu screen.

Note

"Audio Out" can be selected only when the "Speaker" is set to "Off."

Using the Parental Control Feature

The TV programs and movies shown on TV are given a rating signal based on the following rating systems.

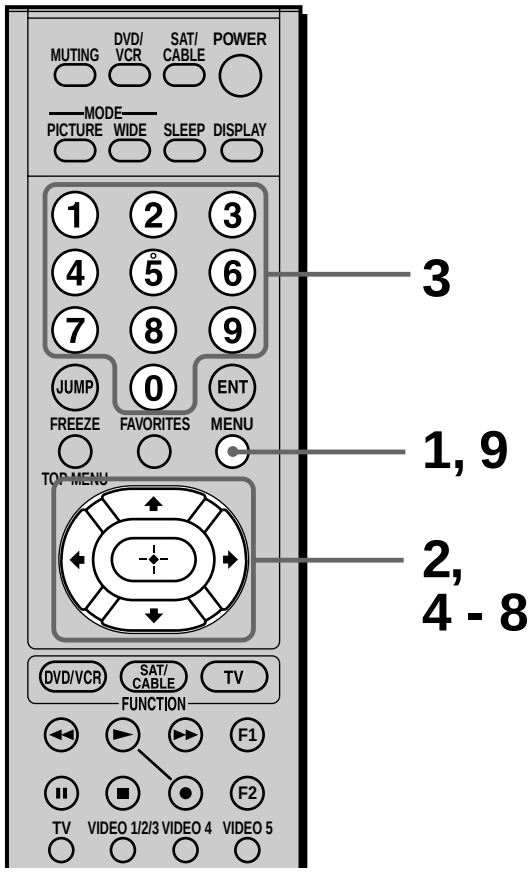
In U.S.A.: U.S. Television Parental Guidelines to rate television programs (U.S. TV ratings), and Motion Picture Association of America (MPAA) Guidelines to rate movies including those shown on TV (movie ratings).

In Canada: Canadian English Language ratings to rate television programs in English, and Canadian French Language ratings to rate those in French.

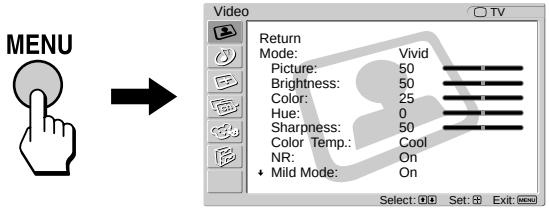
To block programs you feel unsuitable for your children, you need to set the TV for the desired rating systems. Sony's predetermined ratings are also available. See page 71 for a description of the ratings.

The TV's Parental Control feature functions by receiving the rating signal from your local broadcasting station or cable service provider.

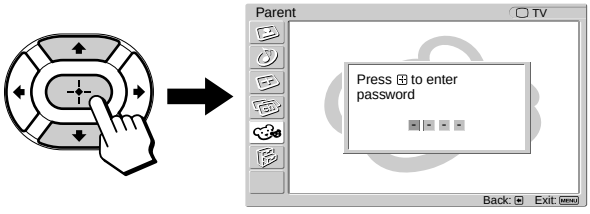
Activating the Parental Control feature



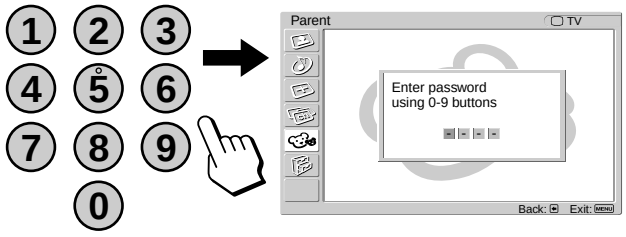
1 Press MENU.



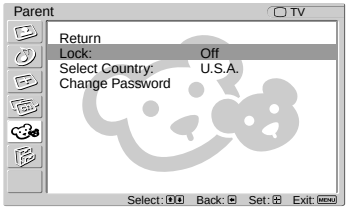
2 Press ↑/↓ to select (Parent), then press ⊕.



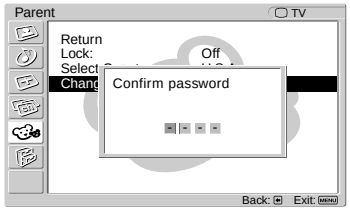
3 Enter a four-digit password using the 0-9 buttons, then, press ⊕.



4 The Parent menu options appear.



If you access the Parent menu for the first time, you are requested to enter the password again for confirmation.



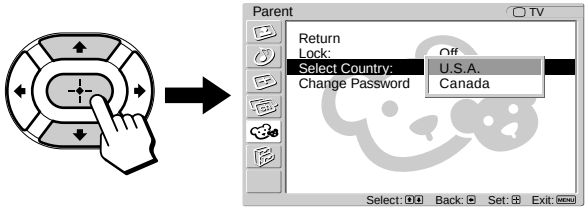
Note

Do not enter “4357” corresponding to “HELP” on a phone number pad (see page 68).

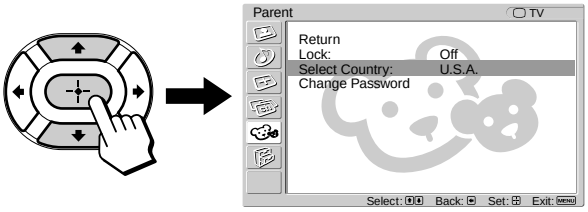
Tips

- You need to enter the password here for any further access into the Parent menu. If you lose your password, see “Tip” on page 68.
- If you want to change the password, see page 68.

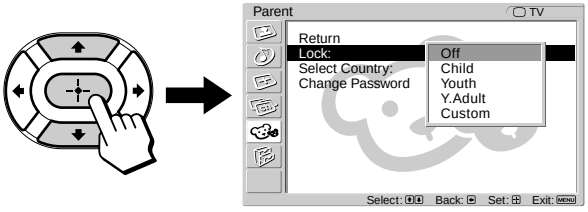
5 Press ↑/↓ to select “Select Country,” then press ⊕.



6 Press ↑/↓ to select your country/region (U.S.A. or Canada), then press ⊕.

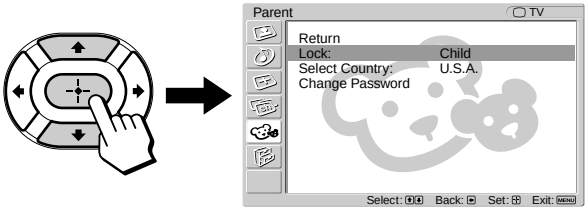


7 Press ↑/↓ to select “Lock,” then press ⊕.



8 Press ↑/↓ to select a desired rating, then press ⊕.

If you select “Child,” “Youth,” or “Y.Adult” (Young Adult), the Parental Control is activated automatically.



Tip

If you are not familiar with the Parental Guideline rating system, you should select “Child,” “Youth,” or “Y.Adult” (Young Adult) to help simplify the rating selection. To set more restrictive ratings, select “Custom” (see “Selecting a Custom Rating” on page 68).

9 Press MENU to exit the menu screen.

(Continued)

To view blocked programs

You can view blocked programs by entering the password.

1 Press ENT (enter) when tuned to a blocked program.

2 Enter your four-digit password using the 0-9 buttons.

The Parental Control feature will be canceled temporarily until you turn the TV off.

To deactivate the Parental Control feature

Set “Lock” to “Off” in the (Parent) menu.

To change the password

1 Press MENU.

2 Press ↑/↓ to select (Parent), then press .

3 Enter your four-digit password using the 0-9 buttons, then press .

The Parent menu options appear.

4 Press ↑/↓ to select “Change Password,” then press .

5 Enter a new four-digit password using the 0-9 buttons.

6 Enter the password set in step 5 again to confirm.

7 Press MENU to exit the menu screen.

Tip

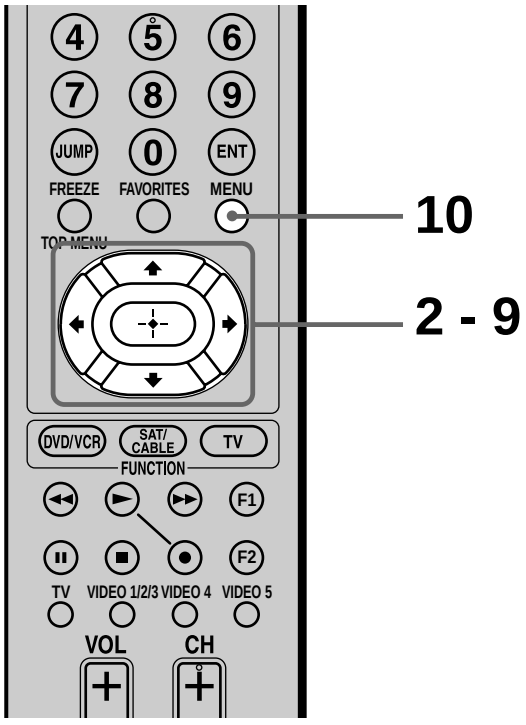
If you have forgotten your password, enter the master password “4357” (corresponding to “HELP” on a phone number pad) in step 3. You can then store a new password.

Notes

- “4357” cannot be set as your password. If you entered “4357,” the message of “Password incorrect press to try again” appears.
- When you select a Parental Control program and the indication is displayed on the screen, you cannot view that program even if you enter “4357” (see “To view blocked programs” on page 68).

Selecting a Custom Rating

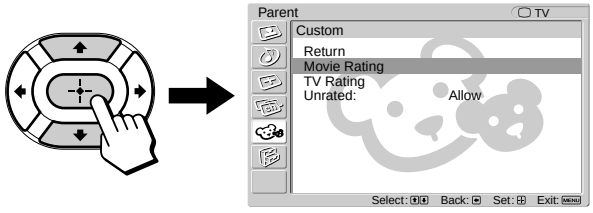
If you want to select the ratings to be blocked from “Custom” once you have activated the Parental Control feature (page 66), follow the procedure below.
For a detailed description of each rating, see “What the Ratings Mean” on page 71.



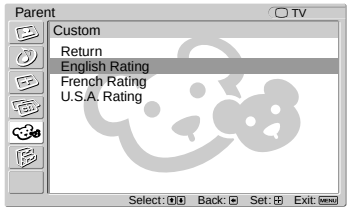
1 Perform steps 1 to 7 in “Activating the Parental Control feature” on page 66 to display the Lock options.

2 Press ↑/↓ to select “Custom,” then press .

In U.S.A.

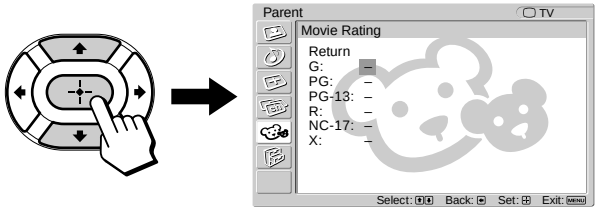


In Canada

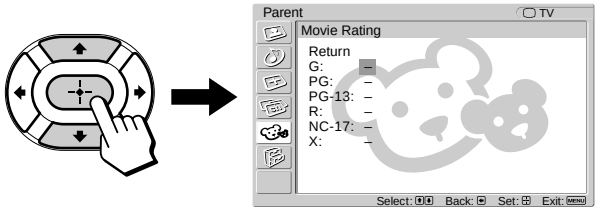


To select a rating in Canada, go to step 6.

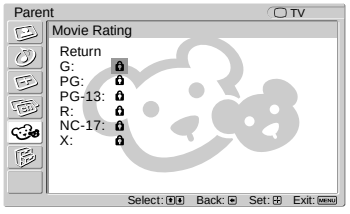
3 Press ↑/↓ to select “Movie Rating,” then press ⊕.



4 Press ↑/↓ to select the rating to be blocked, then press ⊕.

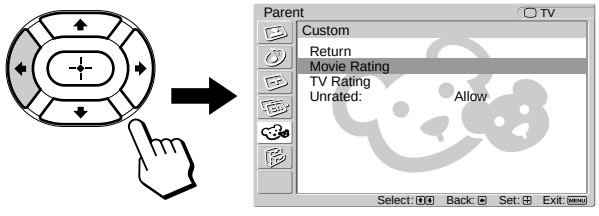


The 🔒 indication automatically appears beside the selected rating and all ratings below it, indicating that the programs that match the ratings will be blocked.



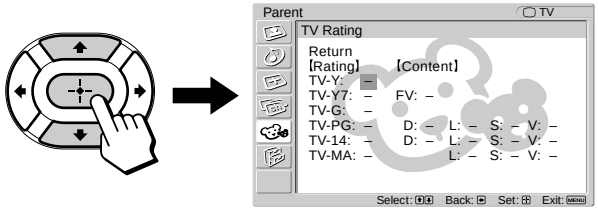
To unlock a rating, select 🔒, then press ⊕. The 🔒 indication changes into “–” and all ratings above it are unlocked.

5 Press ← to return to the “Custom” menu.



6 To select a TV rating in U.S.A.:

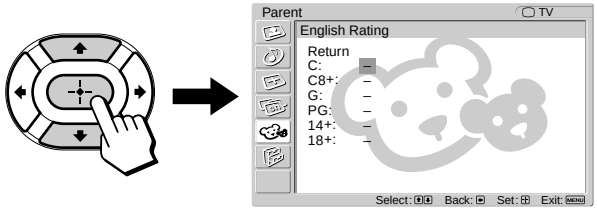
Press ↑/↓ to select “TV Rating,” then press ⊕.



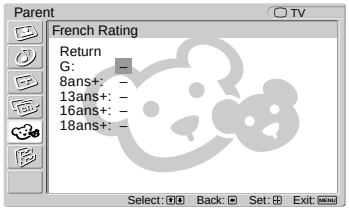
To select a TV rating in Canada:

Press ↑/↓ to select “English Rating,” “French Rating,” or “U.S.A. Rating,” then press ⊕.

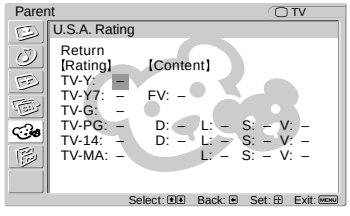
English Rating



French Rating



U.S.A. Rating

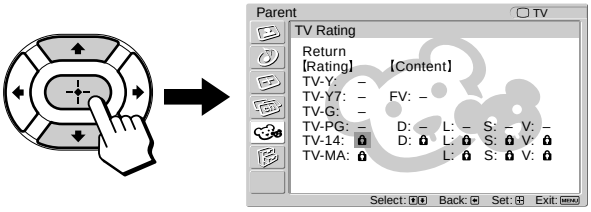


(Continued)

7 Press ↑/↓ to select the TV rating to be blocked, then press ⊕.

The 🔒 indication automatically appears beside the selected rating and all ratings below it, indicating that the programs that match the ratings will be blocked.

Example: TV rating in U.S.A.



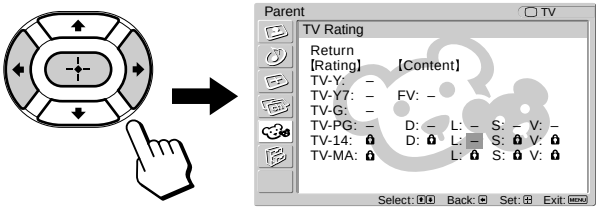
To unlock a rating, select 🔒, then press ⊕.
The 🔒 indication changes into "–" and all ratings above it are unlocked.
Some U.S. TV ratings have additional content ratings called "extenders."
The extenders are defined as follows:
D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence).
By setting the extenders, you can define additional viewing limits.

For more details on extenders, see page 72.

All of the extenders included in the selected ratings will be blocked. If you want to allow any of them to be viewed, go to step 8. Otherwise, go to step 10.

8 Press ←/→ to select the extender to be viewed, then press ⊕.

"–" appears beside the selected extender, indicating that the programs that match the extender can be viewed.



To relock the canceled extender, select 🔒, then press ⊕.
The 🔒 indication appears to show that the programs that match the extender will be blocked again.

9 Repeat step 8 for other extenders.

All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

10 Press MENU to exit the menu screen.

To block programs or movies broadcast without a rating

Unrated option allows you to block programs or movies that are broadcast without a rating.
The unrated option is available only when you have selected U.S.A. as your country/region.

1 Perform steps 1 and 2 of "Selecting a Custom Rating" on page 68.

2 Press ↑/↓ to select "Unrated," then press ⊕.

3 Press ↑/↓ to select "Block," then press ⊕.

Option	Description
Allow	Allows programs and movies that are broadcast without a rating.
Block	Blocks all programs and movies that are broadcast without a rating.

4 Press MENU to exit the menu screen.

Note

If you choose to block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcast from another country/region, emergency broadcasts, political programs, sports, news, public service announcements, religious programs, and weather.

What the Ratings Mean

Ratings in the U.S.A.

Sony's predetermined ratings

These are original ratings that Sony has predetermined according to the viewer's age. Each rating allows for viewing of certain programs, as follows:

Option	Description
Child	Suitable for children under the age of 7. Viewable U.S. movie ratings: G, NR, and N/A Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR
Youth	Suitable for children aged 7 and older. Viewable U.S. movie ratings: G, PG, NR, and N/A Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR
Y.Adult (Young Adult)	Suitable for children aged 13 and older. Viewable U.S. movie ratings: G, PG, PG-13, NR, and N/A Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

For descriptions of Child, Youth, and Y.Adult (Young Adult) ratings, see the following custom rating options.

U.S. movie ratings

U.S. movie ratings are for movies (including those shown on TV) rated according to the Motion Picture Association of America (MPAA) Guidelines.

Option	Description
G (General Audiences — All Ages Admitted)	In G-rated films, no strong words are used, the violence is at a minimum, nudity and sex scenes are not present, nor is there any drug use.
PG (Parental Guidance Suggested — Some Material May Not Be Suitable For Children)	This is a film which may need to be monitored first by parents.
PG-13 (Parents Strongly Cautioned — Some Material May Be Inappropriate For Children Under 13)	Parents are alerted to be very careful about the attendance of their under-teenage children when viewing.
R (Restricted — Under 17 Requires Accompanying Parent Or Adult Guardian)	This film includes hard language, tough violence, nudity, drug abuse or other elements of concern.
NC-17 or X (No One 17 And Under Admitted)	This is a film that most parents would consider not suitable for children aged 17 and under. There may be violence, sex, abhorrent behavior, drug abuse or other elements of concern.

(Continued)

U.S. TV ratings

U.S. TV ratings are for TV programs rated according to the U.S. Television Parental Guidelines.

Option	Description
TV-Y (All Children)	This program is designed for young children aged 2 - 6 and is appropriate for all children.
TV-Y7 (Directed to Older Children)	This program is designed for children aged 7 and older. Themes and elements in this program may include mild fantasy violence or slapstick violence, or may frighten children under the age of 7.
TV-G (General Audience)	Most parents would find this program suitable for all ages. It contains little or no violence, no strong language and little or no sexual dialog or situations.
TV-PG (Parental Guidance Suggested)	This program contains some material that parents may find unsuitable for younger children.
TV-14 (Parents Strongly Cautioned)	This program contains some material that many parents would find unsuitable for children under the age of 14.
TV-MA (Mature Audience Only)	This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under the age of 17.

About the extenders of U.S. TV ratings

TV-Y7, TV-PG, TV-14 and TV-MA ratings have additional content ratings called “extenders” to define additional viewing limits. The extenders are defined as follows:

Option	Description
FV (Fantasy Violence)	Programs containing cartoon violence occurring in TV-Y7 programs only.
D (sexually suggestive Dialog)	Programs containing suggestive dialog, or sexual innuendo.
L (coarse Language)	Programs containing coarse language.
S (Sexual situations)	Programs containing sexual content.
V (Violence)	Programs containing violence. There may be some profanity, violence or brief nudity in these programs.

Ratings in Canada

Sony's predetermined ratings

These are original ratings that Sony has predetermined according to the viewer's age. Each rating allows you to view the certain programs, as follows:

Option	Description
Child	Suitable for children under the age of 8. Viewable Canadian English Language ratings: C and G Viewable Canadian French Language ratings: G Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR
Youth	Suitable for children aged 8 and older. Viewable Canadian English Language ratings: C, G, C8+, and PG Viewable Canadian French Language ratings: G and 8 ans+ Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR
Y.Adult (Young Adult)	Suitable for children aged 14 and older. Viewable Canadian English Language ratings: C, G, C8+, PG, and 14+ Viewable Canadian French Language ratings: G, 8 ans+, and 13 ans+ Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

For descriptions of Child, Youth, and Y.Adult (Young Adult) ratings, see the following custom rating options.

Canadian English Language ratings

The Canadian English Language ratings are for TV programs in English broadcast in Canada.

Option	Description
C (Programming intended for children under the age of 8)	There will be no realistic scenes of violence or no offensive language, nudity or sexual content. Careful attention is paid to themes, which could threaten children's sense of security and well-being.
C8+ (Programming generally considered acceptable for children aged 8 and older to watch on their own)	Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or children will not be encouraged to imitate dangerous acts which they may see on television. There will be no profanity, nudity or sexual content.
G (General Audience)	Will contain very little violence, either physical or verbal or emotional. There may be some inoffensive slang, no profanity and no nudity.
PG (Parental Guidance)	Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children aged 8 - 13.
14+ (Programming contains themes or content which may not be suitable for viewers under the age of 14)	Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+ (Adult)	May contain violence integral to the development of the plot, character or theme, intended for adult audiences. May contain graphic language and explicit portrayals of nudity and/or sex.

(Continued)

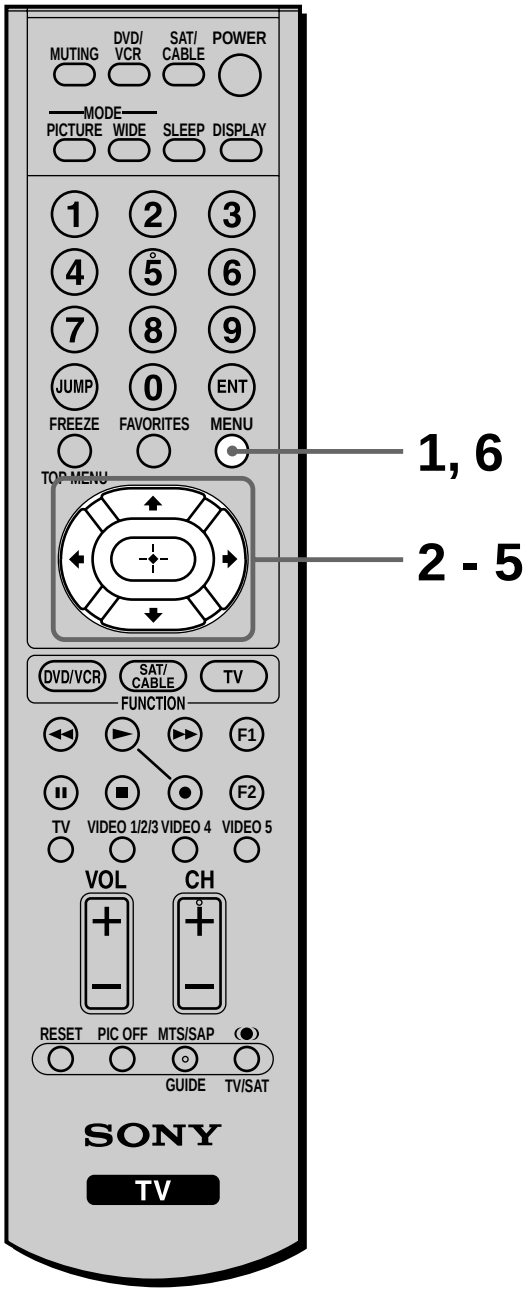
Canadian French Language ratings

The Canadian French Language ratings are for TV programs in French broadcast in Canada.

Option	Description
G (General)	Programming intended for audience of all ages. Contains no violence, or the violence it contains is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.
8 ans+ (8+ General — Not recommended for young children)	Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is recommended for young children (under the age of 8).
13 ans+ (Programming may not suitable for children under the age of 13)	Viewing with an adult is strongly recommended for children under the age of 13.
16 ans+ (Programming is not suitable for children under the age of 16)	Contains frequent scenes of violence or intense violence.
18 ans+ (Programming restricted to adults)	Contains constant violence or scenes of extreme violence.

Using the Screen Saver Function

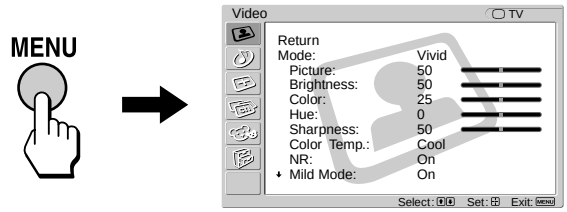
If you continue to display the same image on the screen for a long period of time, part of that image may imprint into the screen and result in image retention. To avoid this, use the screen saver function to equalize use over the entire screen.
You can reduce image retention to move the picture position and display a white screen.



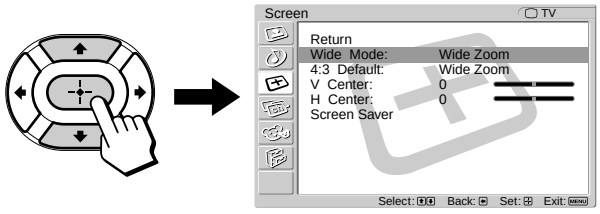
Note

The Screen Saver function does not prevent image retention completely if the same picture is displayed for an extended period of time.

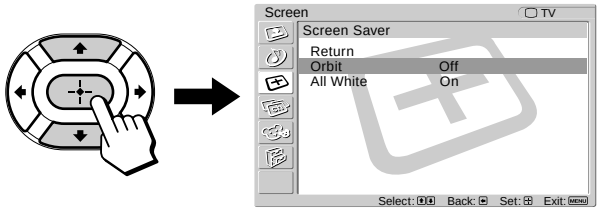
1 Press MENU.



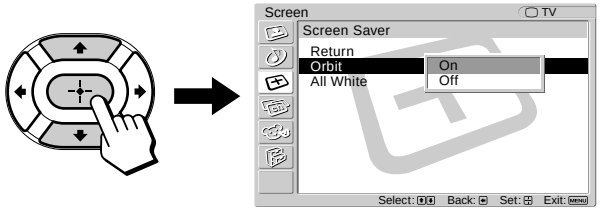
2 Press ↑/↓ to select (Screen), then press .



3 Press ↑/↓ to select “Screen Saver,” then press .

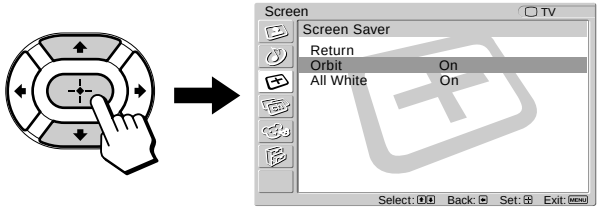


4 Press ↓/↑ to select “Orbit,” then press .



5 Press ↓/↑ to select “On,” then press .

The picture moves every 30 seconds.

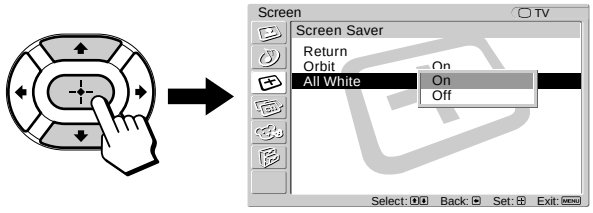


6 Press MENU to exit the menu screen.

Image Retention Recovery*

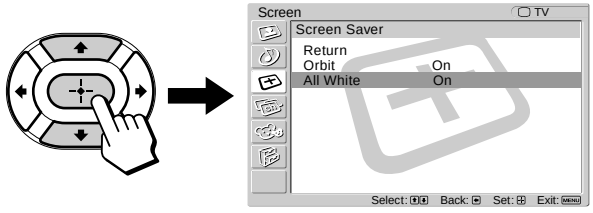
To reduce the appearance of image retention that may have occurred, select “All White” option under “Screen Saver” function in the (Screen) menu.

1 Press ↓/↑ to select “All White,” then press .



2 Press ↓/↑ to select “On,” then press .

The screen appears white for 30 minutes.



3 Press MENU to exit the menu screen.

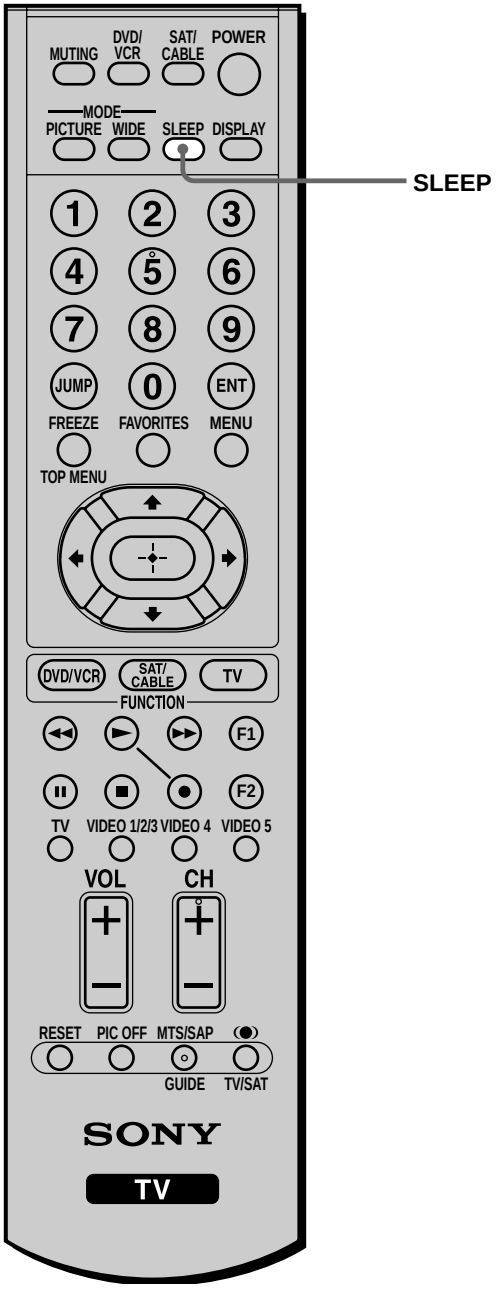
Tips

- All White function finishes automatically after 30 minutes. If image retention is still present, repeat the function again.
- To cancel “All White” and return to normal viewing, press any button on the remote control.

* Once image retention occurs, it may become less conspicuous over time but it will never completely disappear. (See page 3 for more information on Image Retention.)

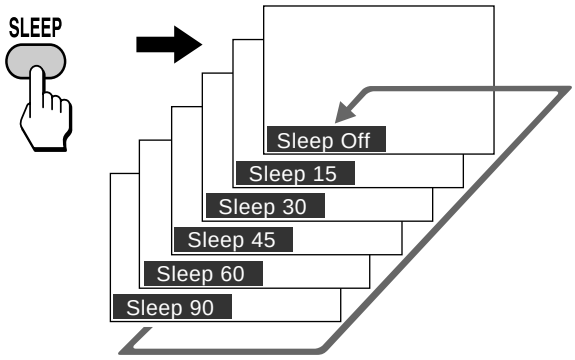
Turning Off the TV Automatically

You can set the TV to turn off automatically after a predetermined period of time (15, 30, 45, 60, or 90 minutes).



Press SLEEP repeatedly until the desired period of time appears.

Each time you press the button, the period of time changes as follows:



While the Sleep timer is activated, the ⏲ (Timer) LED on the TV lights up in red.

To cancel the Sleep timer

Press SLEEP repeatedly until “Sleep Off” appears.

Tips

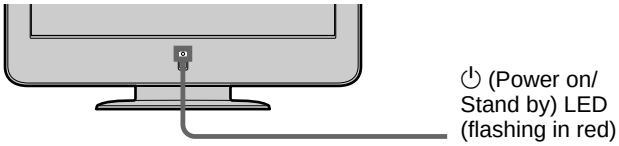
- If you turn the TV off, and then turn it on again, the Sleep timer returns to “Sleep Off.”
- “TV will turn off soon” appears one minute before the TV shuts off. This message may not appear if you perform any operation with the menu opened.

Additional Information

Troubleshooting

Self-diagnosis function

The TV is equipped with a self-diagnosis function. If there is a problem with your TV, the ⏻ (Power on/Stand by) LED on the front panel will flash repeatedly in red. Writing down the duration of flashes and interval between flashes helps you inform qualified Sony personnel of the TV's condition.



1. Measure how long the ⏻ (Power on/Stand by) LED flashes and stops flashing.

   For example, the LED flashes for 2 seconds, stops flashing for 1 second, and flashes for 2 seconds.

2. Press ⏻ (Power) on the TV to turn it off, and disconnect the power cord, then inform qualified Sony personnel or the Direct Response Center/ Customer Relations Center of how the indicator flashes (duration and interval).

Trouble symptoms and remedies

Problem	Possible remedies
No picture.	
Cannot receive any channels.	• Make sure the power cord is connected securely. • Turn on the power of the TV. • Check antenna/cable connections. • Press PIC OFF on the remote control so that the ⊠ (Picture off) LED goes off.
Cannot receive upper channels (UHF) when using an antenna.	• Set "Cable" to "Off" in the (Channel) menu (page 36). • Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 35).
TV is locked to one channel.	• Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 35). • Check your Channel Fix setting (page 37).
Cannot receive any channels when using cable TV.	• Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 35). • Make sure "Cable" in the (Channel) menu is set to "On" (page 36).
Cannot receive or select channels.	• Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 35).
The TV turns off automatically. (The TV enters the standby mode.)	• Check if the Sleep timer is activated (page 76).
No picture from some video sources.	• Check the connection between the optional video equipment and the TV. • Press the Input Select buttons on the remote control (page 52). • When you connect video equipment to both the VIDEO and the S VIDEO input jacks, make sure "Auto YC" in the (Setup) menu is set to "On" to view the S VIDEO input (page 23).

(Continued)

Problem	Possible remedies
Poor picture. Double images or ghosts.	• Check antenna/cable connections. • Check the antenna location and direction.
Only snow and noise appear on the screen.	• Check if the antenna is broken or bent. • Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.)
Dotted lines or stripes.	• Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers.
No color./Dark picture./ Color is not correct.	• Press PICTURE to select the desired Picture Mode (page 42). • Adjust the Picture Mode options in the (Video) menu (page 59).
The picture is too bright.	• Press PICTURE to select the desired Picture Mode (page 42).
Picture (stripe) noise.	• Make sure that the antenna is connected using the supplied 75-ohm coaxial cable. • Keep the antenna cable away from other connecting cords. • Do not use 300-ohm twin lead cables as interference may occur.
Image left on screen.	• Perform image retention recovery (page 75). • Use “Screen Saver” function (page 74).
The screen flickers when turning on the TV.	• This is caused by feature of the Plasma Display Panel, and does not indicate a malfunction of the TV.
No sound./Noisy sound. Good picture, no sound.	• Check the volume control. • Press MUTING or VOL + so that “Muting” disappears from the screen (page 40). • Disconnect your headphones. • Set “Speaker” to “On” in the (Audio) menu (page 64). If it is set to “Off,” sound is not output from the TV’s speakers regardless of the TV’s volume control. • Check if the current input is set to “On” in “Center Speaker Mode” in the (Audio) menu (page 49).
Audio noise.	• Make sure that the antenna is connected using the supplied 75-ohm coaxial cable. • Keep the antenna cable away from other connecting cords. • Do not use 300-ohm twin lead cables as interference may occur. • Press MTS/SAP to select “Mono” (page 63).
Striped noise during playback/recording of a VCR.	• This is caused by video head interference. Keep your VCR away from the TV. • Leave a space of 30 cm (11 7/8 inches) between your VCR and the TV to avoid noise. • Avoid installing your VCR in front of the TV or at the side of the TV.
Cannot operate menu item.	• If the option you want to select appears in a pale color, you cannot select it.
Wide Screen Mode changes automatically.	• The current Wide Screen Mode setting is automatically replaced with the 4:3 Default setting when you change the channel or video input, if “4:3 Default” in the (Screen) menu is set to other than “Off.” If you want to lock in the Wide Screen Mode selected with the WIDE button, set “4:3 Default” to “Off” in the (Screen) menu (page 47).
Remote control does not operate.	• The batteries could be weak. Replace the batteries. • Check the polarity of the batteries. • If the ⏻ (Power on/Stand by) LED on the TV does not light in red, press ⏻ (Power) on the TV. • Press the TV button first for TV operation. • Point the remote control at the remote control sensor of the TV. • Install the TV away from fluorescent lights. • Try to press F1 or F2 button on the remote control.
Cannot change channels with the remote control.	• If you are using another device to change channels, be sure you have not inadvertently switched your TV from channel 3 or 4 setting. Use the Channel Fix option to “fix” the channel based on the hookup you used (see “To fix in a TV channel” on page 37). • If you are using another device to control channels, be sure the FUNCTION button for that device has been pressed. For example, if you are using your cable box to control channels, be sure to press SAT/CABLE (page 16).
Lost password.	• Select the (Parent) menu on the menu screen, then enter the following master password: 4357. The master password clears your previous password and allows you to enter a new password (page 68).

Specifications

Television system:
American TV standard

Channel coverage:
VHF: 2-13/UHF: 14-69/CATV: 1-125

Antenna:
75-ohm external terminal for VHF/UHF

Screen size (measured diagonally):
42 inches

Panel System:
Plasma Display Panel

Display resolution:
852 dots (horizontal) × 480 lines (vertical)

VIDEO 1/2/3 IN:
S VIDEO (4-pin mini DIN):
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative
AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

HD/DVD 4 IN:
Y, P_B, P_R (Component Video):
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
P_B: 0.7 Vp-p, 75 ohms
P_R: 0.7 Vp-p, 75 ohms
Signal format:
480i, 480p, 720p, 1080i
AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

HDMI 5 IN:
HDMI: Video: 480i, 480p, 720p, 1080i
Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits
AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

CENTER SPEAKER IN:
Max 180 W (6 Ω), 1 kHz
Sensitivity 30 Vp-p

AUDIO OUT:
500 mVrms (100% modulation)
More than 1 Vrms at the maximum volume setting (Variable)
More than 500 mVrms (Fixed)

Headphones:
Stereo mini jack
Impedance: 16 ohms

Speaker:
Full range: ø7 cm (2 7/8 inches) (2)
Woofer: ø7 cm (2 7/8 inches) (2)

Speaker output:
10 W + 10 W

Power requirement:
120 V AC, 60 Hz

Power consumption:
In use: 370 W
In standby: Less than 1 W

Dimensions (W/H/D):
Including TV stand: 1,075 × 826 × 312 mm (42 3/8 × 32 5/8 × 12 3/8 inches)
Without TV stand: 1,075 × 750 × 110 mm (42 3/8 × 29 5/8 × 4 3/8 inches)

Mass:
Including TV stand: 45.0 kg (99 lb. 3 oz.)
Without TV stand: 39.5 kg (87 lb. 1 oz.)

Supplied accessories:
Remote control RM-Y1003 (1)
Size AA batteries (2)
75-ohm coaxial cable (1)
AC power cord (1)
Clamp screws (2)
Plug Holder for AC Power Cord (1)
Cleaning Cloth (1)
Operating Instructions (1)
Quick Setup Guide (1)
Warranty Card (1)

Optional accessories:
Headphones plug adaptor
Connecting cables
Wall-Mount Bracket SU-PW2

Note
Some optional accessories may be out of stock.

Design and specifications are subject to change without notice.

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